

SHARP SERVICE MANUAL

No. S99C7LC40LE70



LCD COLOR TELEVISION

LC-40LE700UN(A)
LC-46LE700UN(A)
LC-52LE700UN(A)
LC-C46700UN
MODELS LC-C52700UN

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

OUTLINE

LC-40/46/52LE700UN(A) has been issued to cover the modifications of some parts in reference to redesigned LCD panel module of Model LC -40/46/52LE700UN. In this Service Manual, the modifications from Model LC-32/40/46/52LE700UN (No. S79B2LC32L70U) are focused on. For what is left out herein, please refer back to the Service Manual of the previous model LC-32/40/46/52LE700UN (No. S79B2LC32L70U).

This Service Manual should be referred to as from the September 2009 production unit (serial numbers: 908851112 and on).

Identifying the models with the redesigned LCD panel module

- The models with the redesigned LCD panel module have the "A" marking added at the end of the model given on the "Model Label".
- The models with the redesigned LCD panel module have the "A" marking in "No. Label" applied on the packing case.
- The models with the redesigned LCD panel module have the "A" marking "Back Serial No. Label".

Note: LC-C46700UN/C52700UN Service Manual explains the differences from LC-46/52LE700UN. For other technical information, refer to the LC-32/40/46/52LE700UN (No.S79B2LC32L70U) Service Manual.

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Parts Guide

Parts marked with "A" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

OUTLINE AND DIFFERENCES FROM BASE MODEL

OUTLINE

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Models with the redesigned LCD panel module



Model Label

LC-40LE700UN M0015363
LC-46LE700UN M0015362
LC-52LE700UN M0014370



No. Label of the packing case (Top)

LC-40LE700UN M0015363
LC-46LE700UN M0015362
LC-52LE700UN M0014370



No. Label of the packing case (Side)

LC-40LE700UN
LC-46LE700UN
LC-52LE700UN



Back Serial No. Label

- Identification of the LED PWB unit model

There are two types of LED PWB units in the LCD module: 21mm wide and 31mm wide. The SERIAL NO. label of the LED PWB unit 21 mm wide is marked with "●".

When replacing the LED PWB unit, use the one of the same width.

(Example)



LIST OF CHANGED PARTS (LC-40LE700UN(A))

Ref. No.	Description	LC-40LE700UN (Base Models)	LC-40LE700UN (A) (This Models)	Interchangeability	Note
PRINTED WIRING BOARD ASSEMBLIES					
	MAIN Unit	DKEYMF282FM01	DKEYMF282FM10	D	No internal parts changed
	LCD Control Unit	RUNTK4225TPZA or DUNTKF239FM01	DUNTKF239FM02	D	Changed
	KEY Unit	DUNTKE266FM02	←	—	No change
	R/C, LED Unit	DUNTKF308FM01	←	—	No change
	ICON Unit	DUNTKF314FM01	←	—	No change
	POWER Unit	RUNTKA622WJQZ	←	—	No change
	LED5-PWB1 Unit	RUNTKA595WJ01	RUNTKA655WJ01	B	Changed
	LED5-PWB2 Unit	RUNTKA595WJ02	RUNTKA655WJ02	B	Changed
	LED6-PWB1 Unit	RUNTKA596WJ01	RUNTKA656WJ01	B	Changed
	LED6-PWB2 Unit	RUNTKA596WJ02	RUNTKA656WJ02	B	Changed
LCD PANEL					
	40" FHD LCD Panel Module Unit	DLCUCA002FM01	DLCUCA002FM11	D	Changed
CABINET PARTS					
Please refer to a Parts Guide.					
LCD PANEL MODULE					
Please refer to a Parts Guide.					

LIST OF CHANGED PARTS (LC-46LE700UN(A))

Ref. No.	Description	LC-46LE700UN (Base Models)	LC-46LE700UN (A) (This Models)	Interchangeability	Note
PRINTED WIRING BOARD ASSEMBLIES					
	MAIN Unit	DKEYMF282FM01	DKEYMF282FM10	D	No internal parts changed
	LCD Control Unit	RUNTK4225TPZA or DUNTKF239FM01	DUNTKF239FM02	D	Changed
	KEY Unit	DUNTKE266FM02	←	—	No change
	R/C, LED Unit	DUNTKF308FM01	←	—	No change
	ICON Unit	DUNTKF314FM01	←	—	No change
	POWER Unit	RUNTKA604WJQZ	←	—	No change
	LED5-PWB1 Unit	RUNTKA595WJ01	RUNTKA655WJ01	B	Changed
	LED5-PWB2 Unit	RUNTKA595WJ02	RUNTKA655WJ02	B	Changed
	LED6-PWB1 Unit	RUNTKA596WJ01	RUNTKA656WJ01	B	Changed
	LED6-PWB2 Unit	RUNTKA596WJ02	RUNTKA656WJ02	B	Changed
	LED8-PWB1 Unit	RUNTKA598WJ01	RUNTKA658WJ01	B	Changed
	LED8-PWB2 Unit	RUNTKA598WJ02	RUNTKA658WJ02	B	Changed
LCD PANEL					
	46" FHD LCD Panel Module Unit	DLCUCA003FM01	DLCUCA003FM11	D	Changed
CABINET PARTS					
Please refer to a Parts Guide.					
LCD PANEL MODULE					
Please refer to a Parts Guide.					

Interchangeability			
A: Completely interchangeable	OLD = NEW	C: Interchangeable from NEW to OLD	NEW → OLD
B: Interchangeable from OLD to NEW	OLD → NEW	D: Not interchangeable	NEW × OLD

LIST OF CHANGED PARTS (LC-52LE700UN(A))

Ref. No.	Description	LC-52LE700UN (Base Models)	LC-52LE700UN (A) (This Models)	Interchangeability	Note
PRINTED WIRING BOARD ASSEMBLIES					
	MAIN Unit	DKEYMF282FM01	DKEYMF282FM10	D	No internal parts changed
	LCD Control Unit	RUNTK4225TPZA or DUNTKF239FM01	DUNTKF239FM02	D	Changed
	KEY Unit	DUNTK266FM02	←	—	No change
	R/C, LED Unit	DUNTKF308FM01	←	—	No change
	ICON Unit	DUNTKF314FM01	←	—	No change
	POWER Unit	RUNTKA604WJQZ	←	—	No change
	LED6-PWB1 Unit	RUNTKA596WJ01	RUNTKA656WJ01	B	Changed
	LED6-PWB2 Unit	RUNTKA596WJ02	RUNTKA656WJ02	B	Changed
	LED8-PWB1 Unit	RUNTKA598WJ01	RUNTKA658WJ01	B	Changed
	LED8-PWB2 Unit	RUNTKA598WJ02	RUNTKA658WJ02	B	Changed
LCD PANEL					
	52" FHD LCD Panel Module Unit	DLCUCA004FM01	DLCUCA004FM11	D	Changed
CABINET PARTS					
Please refer to a Parts Guide.					
LCD PANEL MODULE					
Please refer to a Parts Guide.					

LIST OF CHANGED PARTS (LC-C46700UN)

Ref. No.	Description	LC-46LE700UN (Base Models)	LC-C46700UN (This Models)	Interchangeability	Note
PRINTED WIRING BOARD ASSEMBLIES					
	MAIN Unit	DKEYMF282FM01	DUNTKF282FM08	D	The MAIN Unit refers to LC-32LE700UN (DUNTKF282FM02) No internal parts changed
	LCD Control Unit	RUNTK4225TPZA or DUNTKF239FM01	DUNTKF239FM02	D	Changed
	KEY Unit	DUNTK266FM02	←	—	No change
	R/C, LED Unit	DUNTKF308FM01	←	—	No change
	ICON Unit	DUNTKF314FM01	←	—	No change
	POWER Unit	RUNTKA604WJQZ	←	—	No change
	LED5-PWB1 Unit	RUNTKA595WJ01	RUNTKA655WJ01	B	Changed
	LED5-PWB2 Unit	RUNTKA595WJ02	RUNTKA655WJ02	B	Changed
	LED6-PWB1 Unit	RUNTKA596WJ01	RUNTKA656WJ01	B	Changed
	LED6-PWB2 Unit	RUNTKA596WJ02	RUNTKA656WJ02	B	Changed
	LED8-PWB1 Unit	RUNTKA598WJ01	RUNTKA658WJ01	B	Changed
	LED8-PWB2 Unit	RUNTKA598WJ02	RUNTKA658WJ02	B	Changed
LCD PANEL					
	46" FHD LCD Panel Module Unit	DLCUCA003FM01	DLCUCA003FM11	D	Changed
CABINET PARTS					
Please refer to a Parts Guide.					
LCD PANEL MODULE					
Please refer to a Parts Guide.					

Interchangeability			
A: Completely interchangeable	OLD = NEW	C: Interchangeable from NEW to OLD	NEW → OLD
B: Interchangeable from OLD to NEW	OLD → NEW	D: Not interchangeable	NEW × OLD

LIST OF CHANGED PARTS (LC-C52700UN)

Ref. No.	Description	LC-52LE700UN (Base Models)	LC-C52700UN (This Models)	Interchangeability	Note
PRINTED WIRING BOARD ASSEMBLIES					
	MAIN Unit	DKEYMF282FM01	DUNTKF282FM08	D	The MAIN Unit refers to LC-32LE700UN (DUNTKF282FM02) No internal parts changed
	LCD Control Unit	RUNTKA4225TPZA or DUNTKF239FM01	DUNTKF239FM02	D	Changed
	KEY Unit	DUNTKE266FM02	←	—	No change
	R/C, LED Unit	DUNTKF308FM01	←	—	No change
	ICON Unit	DUNTKF314FM01	←	—	No change
	POWER Unit	RUNTKA604WJQZ	←	—	No change
	LED6-PWB1 Unit	RUNTKA596WJ01	RUNTKA656WJ01	B	Changed
	LED6-PWB2 Unit	RUNTKA596WJ02	RUNTKA656WJ02	B	Changed
	LED8-PWB1 Unit	RUNTKA598WJ01	RUNTKA658WJ01	B	Changed
	LED8-PWB2 Unit	RUNTKA598WJ02	RUNTKA658WJ02	B	Changed
LCD PANEL					
	52" FHD LCD Panel Module Unit	DLCUCA004FM01	DLCUCA004FM11	D	Changed
CABINET PARTS					
Please refer to a Parts Guide.					
LCD PANEL MODULE					
Please refer to a Parts Guide.					

Interchangeability			
A: Completely interchangeable	OLD = NEW	C: Interchangeable from NEW to OLD	NEW → OLD
B: Interchangeable from OLD to NEW	OLD → NEW	D: Not interchangeable	NEW × OLD

CHAPTER 1. SPECIFICATIONS

[1] SPECIFICATIONS (LC-C46700UN/LC-C52700UN)

Item			Model: LC-C46700UN	Model: LC-C52700UN
LCD panel	Size		46" Class (45 ⁶³ / ₆₄ " Diagonal)	52" Class (52 ¹ / ₃₂ " Diagonal)
	Resolution		2,073,600 pixels (1,920 × 1,080)	
TV Function	TV-standard (CCIR)		American TV Standard ATSC/NTSC System	
	Receiving Channel	VHF/UHF	VHF 2-13ch, UHF 14-69ch	
		CATV	1-135ch (non-scrambled channel only)	
		Digital Terrestrial Broadcast (8VSB)	2-69ch	
		Digital cable ^{*1} (64/256 QAM)	1-135ch (non-scrambled channel only)	
	Audio multiplex		BTSC System	
Audio out			10W × 2	
Terminals	Rear	INPUT 1	AV in, COMPONENT in	
		INPUT 2	COMPONENT in, S-VIDEO in	
		INPUT 4	ANALOG RGB (PC) in (15-pin mini D-sub female connector), Audio in (Ø 3.5 mm jack)	
		INPUT 6	HDMI in with HDCP, Audio in (Ø 3.5 mm jack)	
		INPUT 7	HDMI in with HDCP	
		INPUT 8	HDMI in with HDCP	
		ANT/CABLE	75Ω Unbalance, F Type × 1 for Analog (VHF/UHF/CATV) and Digital (AIR/CABLE)	
		AUDIO	Audio in (Ø 3.5 mm jack)	
		DIGITAL AUDIO OUTPUT	Optical Digital audio output × 1 (PCM/Dolby Digital)	
		OUTPUT	Audio out	
	RS-232C	9-pin D-sub male connector		
	Side	INPUT 3	AV in	
		INPUT 5	HDMI in with HDCP	
SERVICE		Software update		
OSD language			English/French/Spanish	
Power Requirement			AC 120 V, 60 Hz	
Power Consumption			200 W (0.5 W Standby with AC 120 V)	250 W (0.5 W Standby with AC 120 V)
Weight	TV + stand		47.4 lbs./21.5 kg	57.3 lbs./26.0 kg
	TV only		40.8 lbs./18.5 kg	50.7 lbs./23.0 kg
Dimension ^{*2} (W × H × D)	TV + stand		43 ⁹ / ₃₂ × 29 ¹¹ / ₆₄ × 13 ⁶¹ / ₆₄ inch	48 ³ / ₄ × 32 ¹³ / ₆₄ × 13 ⁶¹ / ₆₄ inch
	TV only		43 ⁹ / ₃₂ × 27 ³ / ₃₂ × 3 ⁴⁵ / ₆₄ inch	48 ³ / ₄ × 30 ¹ / ₈ × 3 ⁴³ / ₆₄ inch
Operating temperature			+32°F to +104°F (0°C to +40°C)	

^{*1} Emergency alert messages via Cable are unreceivable.

^{*2} The dimensional drawings are shown on the Spanish operation manual.

- As part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

Optional Accessory

The listed optional accessory is available for the Liquid Crystal Television. Please purchase it at your nearest shop.

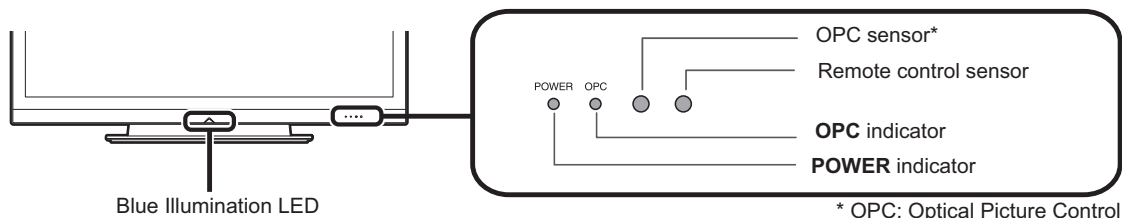
- Additional optional accessories may be available in the near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

Part name	Model number
Wall mount bracket	AN-52AG4

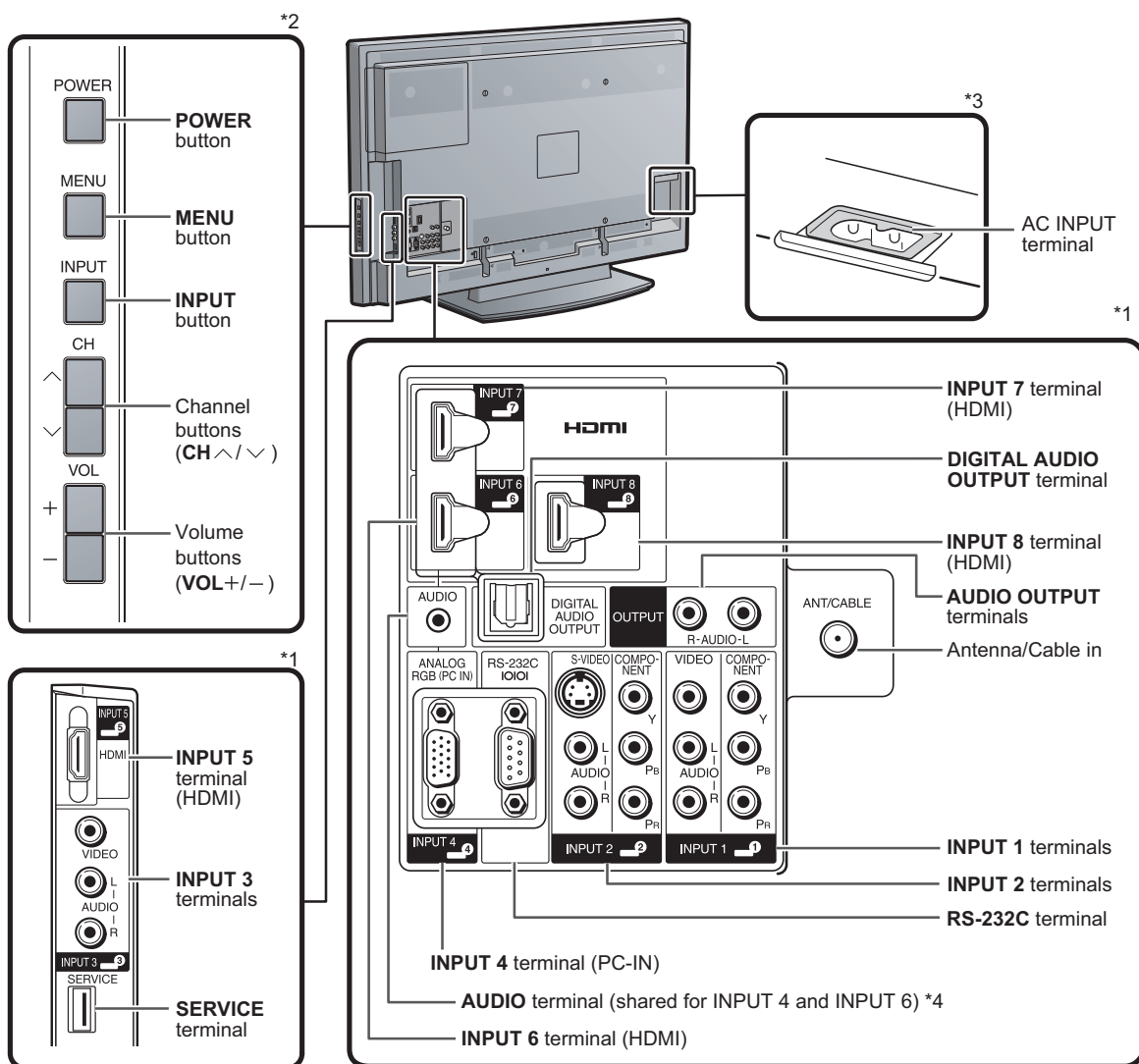
CHAPTER 2. OPERATION MANUAL

[1] Parts Name (LC-C46700UN/LC-C52700UN)

TV (Front)



TV (Rear/Side)



*1 External equipment connection.

*2 Button operations.

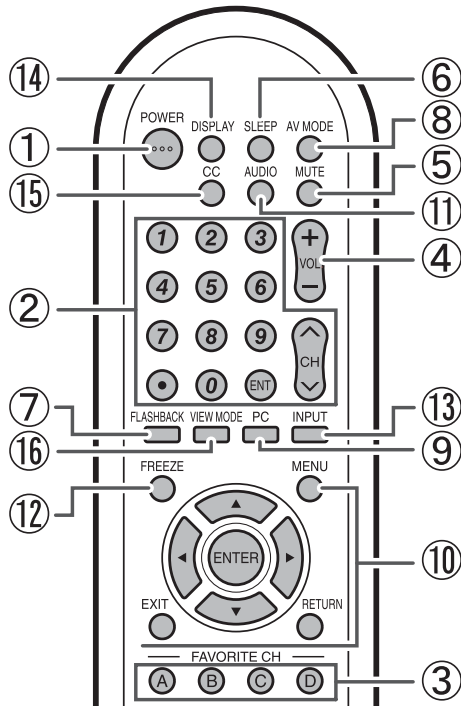
*3 Connecting the AC cord.

*4 Details on the PC Audio Select function.

NOTE

- The illustrations in this operation manual are for explanation purposes and may vary slightly from the actual operations.
- The examples used throughout this manual are based on the LC-C46700UN model.

Direct Button Operation



① POWER

You can turn on the TV or put it on standby by pressing **POWER** on the TV or on the remote control unit.

② Changing Channels

You can change channels by pressing **CH** \wedge/\vee or **0-9**, • (DOT).

Examples:

To select a 1 or 2-digit channel number (e.g., Channel 5):
Press **5** \rightarrow **ENT**.

To select a 3-digit channel number (e.g., Channel 115):
Press **1** \rightarrow **1** \rightarrow **5** \rightarrow **ENT**.

To select a 4-digit channel number (e.g., Channel 22.1):
Press **2** \rightarrow **2** \rightarrow • (DOT) \rightarrow **1** \rightarrow **ENT**.

NOTE

- When selecting a 1-digit channel number, it is not necessary to press **0** before the number.
- When you enter **0-9** only, channel selection will be made if there is no operation within a few seconds.
- If you push "0" by itself, nothing will happen.
- Complete the above steps within a few seconds.
- When you enter **0-9** and • (DOT), channel selection will be made if there is no operation within a few seconds.

③ FAVORITE CH

You can select 4 preset favorite channels in 4 different categories.

Press **A**, **B**, **C** or **D**.

- While watching the TV, you can toggle the selected channels by pressing **A**, **B**, **C** and **D**.

NOTE

- Details of favorite channel settings.

④ Changing Volume

You can change the volume by pressing **VOL +/-** on the TV or on the remote control unit.

- To increase the volume, press **VOL +**.
- To decrease the volume, press **VOL -**.



Audio status

Output device	Output Select	
	Fixed	Variable
Speaker	Variable sound	Mute

- When "Output Select" is set to "Variable", the indicator on the screen changes as shown below.



NOTE

- Details on the Output Select function.

⑤ MUTE

Mutes the current sound output.

Press **MUTE**.

- " \times " will be displayed on the screen for 30 minutes, and the sound is silenced.

NOTE

- Within 30 minutes of pressing **MUTE**, mute can be canceled by pressing **VOL +/-** or **MUTE**.
- Mute will be canceled after 30 minutes have passed. However, the TV will not suddenly output a loud sound as the volume level is set to 0 automatically.

⑥ Sleep Timer

Allows you to set a time when the TV automatically switches to standby.

Press **SLEEP**.

- The remaining time displays when the sleep timer has been set.
- Each time you press **SLEEP**, the remaining time switches as shown below.

Off \rightarrow 30 \rightarrow 60 \rightarrow 90 \rightarrow 120

- When set, the time automatically starts counting down.
- If you want to adjust the sleep timer, you can press **SLEEP** twice then change the time setting.
- When it is 5 minutes before the time expires, the remaining time will start to keep appearing every minute.

NOTE

- Select "Off" by pressing **SLEEP** to cancel the sleep timer.
- The TV will enter standby when the remaining time reaches 0.
- When the sleep timer is set, its indicator on the TV lights red.

⑦ FLASHBACK

Press **FLASHBACK** to switch to the previously tuned channel.

- Press **FLASHBACK** again to switch back to the currently tuned channel.

NOTE

- FLASHBACK** will not work if no channel has been changed after the TV is turned on.

Direct Button Operation

⑧ AV MODE

AV MODE gives you several viewing options to choose from to best match the surrounding environment of the TV, which can vary due to factors like room brightness, type of program watched or the type of image input from external equipment.

Press **AV MODE**. Current AV MODE displays.

- Press **AV MODE** again before the mode displayed on the screen disappears. The mode changes as shown below:

Example:

When the input source is TV, INPUT 1, 2 or 3 terminals

STANDARD → MOVIE → GAME → USER [TV]
 ↑
 DYNAMIC ← DYNAMIC (Fixed) ← AUTO

Example:

When the input source is INPUT 4, 5, 6, 7 or 8 terminals

STANDARD → MOVIE → GAME → PC → USER [9]
 ↑
 DYNAMIC ← DYNAMIC (Fixed) ← AUTO

STANDARD: For a highly defined image in a normal lighting.

MOVIE: For a movie.

GAME: Lowers image brightness for easier viewing.

PC: For PC.

USER: Allows the user to customize settings as desired. You can set the mode for each input source.

AUTO: Optimizes the image quality automatically based on the room brightness and image signal.

DYNAMIC (Fixed): Changes the image and sound settings to the factory preset values. No adjustments are allowed.

DYNAMIC: For a clear-cut image emphasizing high contrast, useful for sports viewing.

NOTE

- You can select a different AV MODE item for each input mode. (For example, select STANDARD for TV input and DYNAMIC for INPUT 1.)
- When you play games, "GAME" is recommended for AV MODE.
- When AV MODE is set to "AUTO", part of the menu may not be displayed correctly or the setting range of the menu may be changed.

⑨ PC

Allows you to gain quick access to PC mode. Press **PC**.

⑩ Operating On-Screen Display Menu

You can operate the on-screen display menu by using the following buttons.

MENU: Displays the menu screen.

▲ / ▼ / ◀ / ▶, **ENTER:** Select a desired item on the screen.

RETURN: Returns to the previous menu screen.

EXIT: Turns off the menu screen.

NOTE

- For operating the on-screen display menu, see "Menu Operation Buttons".

⑪ AUDIO

■ MTS/SAP stereo mode

The TV has a feature that allows reception of sound other than the main audio for the program. This feature is called Multi-channel Television Sound (MTS). The TV with MTS can receive mono sound, stereo sound and Secondary Audio Programs (SAP). The SAP feature allows a TV station to broadcast other information, which could be audio in another language or something completely different like weather information.

You can enjoy Hi-Fi stereo sound or SAP broadcasts where available.

- Stereo broadcasts:** View programs like live sporting events, shows and concerts in dynamic stereo sound.
- SAP broadcasts:** Receive TV broadcasts in either MAIN or SAP sound. MAIN sound: The normal program soundtrack (either in mono or stereo). SAP sound: Listen to a second language, supplementary commentary or other information. (SAP is mono sound.)

If stereo sound is difficult to hear.

- Obtain a clearer sound by manually switching to fixed mono-sound mode.

You can change MTS as shown below to match the television broadcast signal.

Press **AUDIO** to toggle between audio modes.

Examples: when receiving MTS and SAP

STEREO mode: STEREO ↔ MONO
 STEREO + SAP mode: ST(SAP) → SAP(ST) → MONO

MAIN + SAP mode: MAIN ↔ SAP
 MONO mode: MONO

■ Digital broadcasting audio mode

The types of audio transmitted in a digital broadcast include SURROUND as well as MONO and STEREO. In addition, it is possible for multiple audio tracks to accompany a single video track.

Press **AUDIO** to toggle between audio modes.

Example: when receiving Digital broadcasting

STEREO (Audio1) → STEREO (Audio2)
 ← SURROUND (Audio3) →

NOTE

- MTS only operates while in TV mode.

⑫ FREEZE

Allows you to capture and freeze a moving image that you are watching.

Press **FREEZE**.

- A moving image is captured.
- Press **FREEZE** again to cancel the function.

NOTE

- When this function is not available, "No displaying still image available." will display.
- The still image automatically goes out after 30 minutes.
- If you are using the freeze function and a broadcast activates the V-CHIP BLOCK, the freeze function will be canceled and a V-CHIP BLOCK message will appear.

Direct Button Operation

⑬ INPUT

To view external source images, select the input source using **INPUT** on the remote control unit or on the TV.

1 Press **INPUT**.

- A list of selectable sources appears.

2 Press **INPUT** again or press a/b to select the input source.

- An image from the selected source automatically displays.
- Each time **INPUT** is pressed, the input source toggles.
- If the corresponding input is not plugged in, you cannot change the input. Be sure to connect the equipment beforehand.

NOTE

- External equipment connection.
- Press **PC** to switch to an image from the PC.

⑭ DISPLAY

Displays channel information being viewed. Press **DISPLAY**.

⑮ Closed Captions and Digital Closed Captions

Your TV is equipped with an internal Closed Caption decoder. It allows you to view conversations, narration and sound effects as subtitles on your TV. Closed Captions are available on some TV programs and on some VHS home video tapes at the discretion of the program provider.

Digital Closed Caption service is a new caption service available only on digital TV programs (also at the discretion of the service provider). It is a more flexible system than the original Closed Caption system, because it allows for a variety of caption sizes and font styles. When the Digital Closed Caption service is in use, it will be indicated by the appearance of a 3-letter abbreviation that also indicates the language of the Digital Closed Captions: ENG (English), SPA (Spanish), FRA (French) or other language codes.

Not all programs and VHS videotapes offer closed captions. Please look for the “CC” symbol to ensure that captions will be shown.

In the Closed Caption system, there can be more than one caption service provided. Each is identified by its own number. The “CC1” and “CC2” services display subtitles of TV programs superimposed over the program's picture.

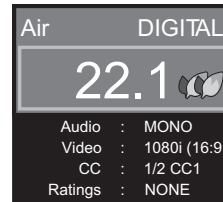
In the Closed Caption system, the “Text1” or “Text2” services display text that is unrelated to the program being viewed (e.g., weather or news). These services are also superimposed over the program currently being viewed.

1 Press **CC**.

- This will present the Closed Caption information display.

2 Press **CC** while the Closed Caption information is still on the screen.

- Press repeatedly until you select the desired closed caption service.



- Depending on the number of caption services in the signal being received, you will see information such as 1/2 or 1/4 displayed. 1/2 means “the first of two services”.

Example:

If a program has three services (Digital CC(ENG), CC1 and Text1), the closed caption display will toggle in this sequence:

1/3 ENG → 2/3 CC1 → 3/3 Text1 → Off

- The **CC** button keeps a record of the last service selected in its memory. If the last closed caption mode (e.g. 1/3ENG) you selected is not available for the next program, or on another channel, the closed caption service that is available is automatically selected, and this service appears in parentheses, e.g. “1/3(CC1)”. Closed Caption services that appear in parentheses will not be stored in the **CC** button's memory as your last selected service. Only services that you have selected with the **CC** button are stored.

Examples:

In a case where there are two closed caption services provided (for instance, Digital CC(ENG) and CC1), and Digital CC(ENG) is displayed as your current selection, if Digital CC(ENG) is not broadcast for the next program, the other closed caption service, CC1, will be displayed in parentheses. A closed caption service appears in parentheses because the service you selected is not available and a different service is displayed on your screen. “1/1(CC1)” is displayed instead of “1/2/ENG”.

NOTE

- When “Power Saving” is set to “Standard” or “Advanced”, the Power Saving leaf icon appears on the channel information window. Details of Power Saving settings.
- Detailed closed caption settings.
- When the program contains no closed caption, “--” displays in the closed caption information.
- If the language code, e.g. “ENG”, is not found on Digital TV programs, “--” will be shown.
- Four kinds of closed caption service (CC1, CC2, Text1, Text2) are potentially available, but a broadcast may contain none or only some of these services at the discretion of the program provider.

Direct Button Operation

16 VIEW MODE

You can select the screen size.

1 Press **VIEW MODE**.

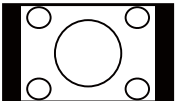
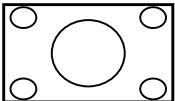
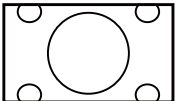
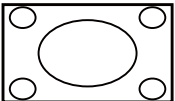
- The View Mode menu displays.
- The menu lists the View Mode options selectable for the type of video signal currently being received.

2 Press **VIEW MODE** or **▲/▼** while the View Mode menu is displayed to select a desired item on the menu.

- You can sequentially select a View Mode that has its own aspect ratio.

For 4:3 programs

Example: Screen size images

Side Bar	S.Stretch (Smart stretch)	Zoom	Stretch
			
Suitable for viewing conventional 4:3 programs in their normal format.	Suitable for stretching 4:3 programs to fill the screen.	Suitable for viewing wide-screen 2.35:1 anamorphic DVDs in full screen.	This mode is useful for 1.78:1 DVDs. When viewing 1.85:1 DVDs, stretch mode will still show very thin black bands at the top and bottom of the screen.

■ For HD programs

Stretch: Suitable for viewing wide-screen 1.78:1 aspect ratio program, stretch mode will still show very thin black bands at the top and bottom of the screen.

Dot by Dot (1080i/p only): Detects the resolution of the signal and displays an image with the same number of pixels on the screen.

Full Screen (720p only): You can select "Full Screen" only when receiving a 720p signal.

S.Stretch (Smart stretch): Suitable for stretching 4:3 programs to fill the screen.

Zoom: Suitable for viewing wide-screen 2.35:1 aspect-ratio programs in full screen.

NOTE

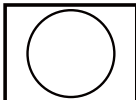
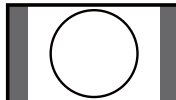
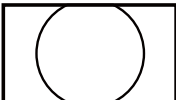
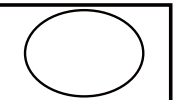
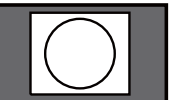
- When using Dot by Dot or Full Screen, it is possible to see noise or bars around different outer portions of the screen. Please change view mode to correct this.

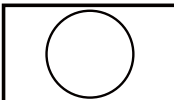
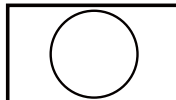
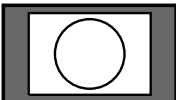
For PC input mode

NOTE

- Connect the PC before making adjustments.
- Selectable screen size may vary with input signal type.

Example: Screen size images

Input signal				
 4:3	 Normal Keeps the original aspect ratio in a full screen display.	 Zoom For viewing widescreen programs. The top and bottom of the image is cropped.	 Stretch An image fully fills the screen.	 Dot by Dot Detects the resolution of the signal and displays an image with the same number of pixels on the screen.

Input signal		
 16:9	 Stretch An image fully fills the screen.	 Dot by Dot Detects the resolution of the signal and displays an image with the same number of pixels on the screen.

QUICK REFERENCE

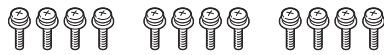
Attaching/Detaching the Stand

- Before attaching (or detaching) the stand, unplug the AC cord from the AC INPUT terminal.
- Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged.

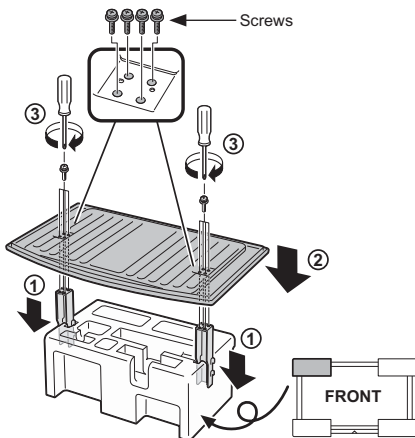
CAUTION

- **Attach the stand in the correct direction.**
- **Do not remove the stand from the TV unless using an optional wall mount bracket to mount it.**
- **Be sure to follow the instructions. Incorrect installation of the stand may result in the TV falling over.**

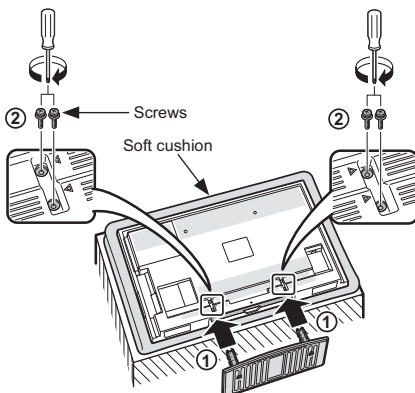
- 1 Confirm that there are 12 screws (all the same size) supplied with the stand unit.



- 2
 - ① Set the post for the stand unit onto the box.
 - ② Attach the base to the post.
 - ③ Insert and tighten the 8 screws into the 8 holes on the bottom of the base.
 - Hold the stand unit securely with one hand, and then tighten the screws.



- 3
 - ① Insert the stand into the openings on the bottom of the TV.
 - ② Insert and tighten the 4 screws into the 4 holes on the rear of the TV.



NOTE

- To detach the stand, perform the steps in reverse order.

Setting the TV on the Wall

CAUTION

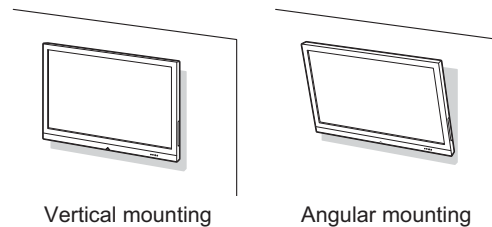
- **This TV should be mounted on the wall only with the AN-52AG4 (SHARP) wall mount bracket. The use of other wall mount brackets may result in an unstable installation and may cause serious injuries.**
- **Installing the TV requires special skill that should only be performed by qualified service personnel. Customers should not attempt to do the work themselves. SHARP bears no responsibility for improper mounting or mounting that results in accident or injury.**

Using an optional bracket to mount the TV

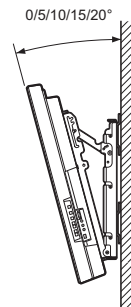
- You can ask a qualified service professional about using an optional AN-52AG4 bracket to mount the TV to the wall.
- Carefully read the instructions that come with the bracket before beginning work.

Hang on the wall

AN-52AG4 wall mount bracket.
 (See the bracket instructions for details.)



About setting the TV angle



LC-C46700UN

- The center of the display:
 $\frac{1}{16}$ inch (1.2 mm) under the "b" position.

LC-C52700UN

- The center of the display:
 $\frac{5}{64}$ inch (1.75 mm) under the "b" position.
- Refer to the operation manual of AN-52AG4 for details.

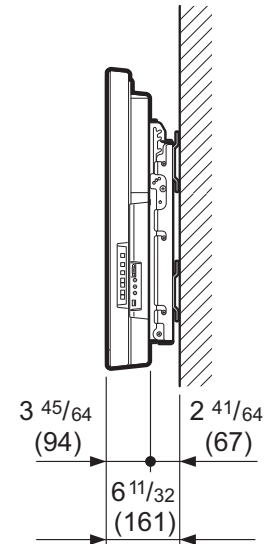
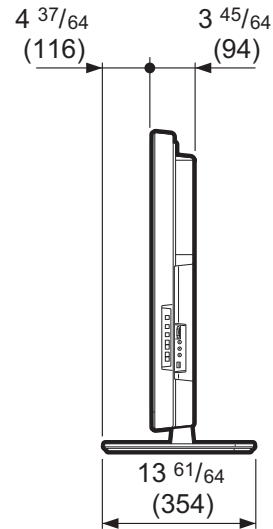
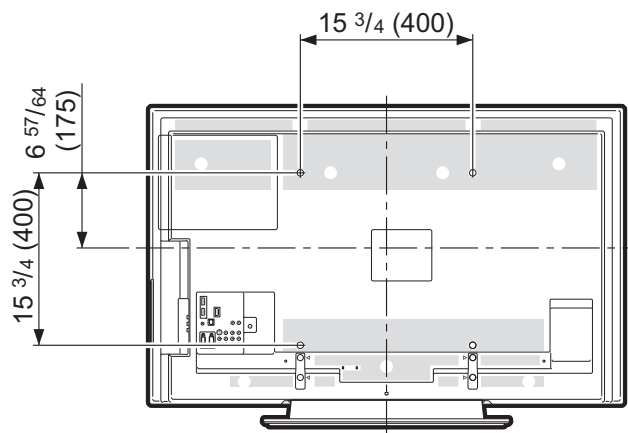
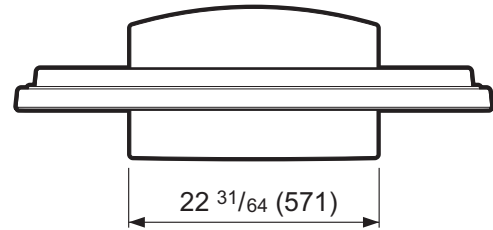
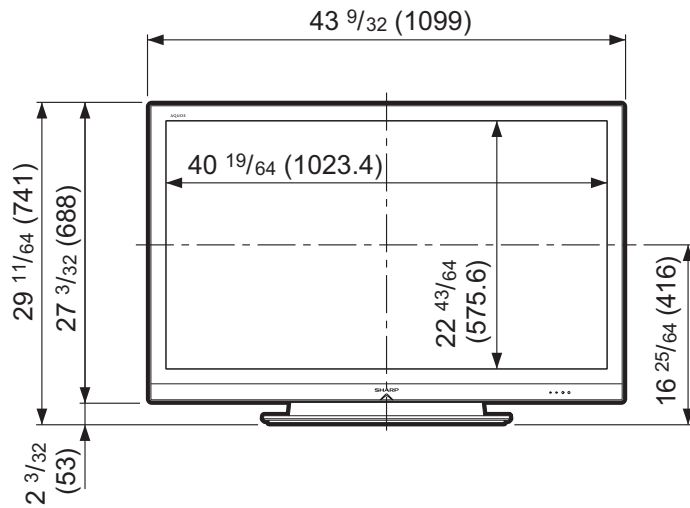
NOTE

- Detach the cable clamp on the rear of the TV when using the optional mount bracket.
- To use this TV mounted on a wall, remove the covers at the 4 locations on the rear of the TV, and then use the screws supplied with the wall mount bracket to secure the bracket to the rear of the TV.

CHAPTER 3. DIMENSIONS

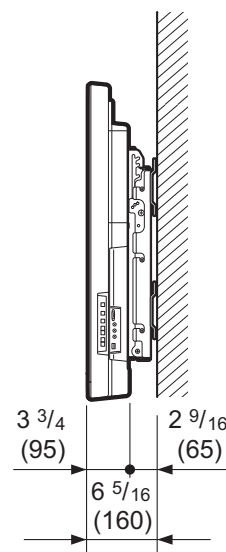
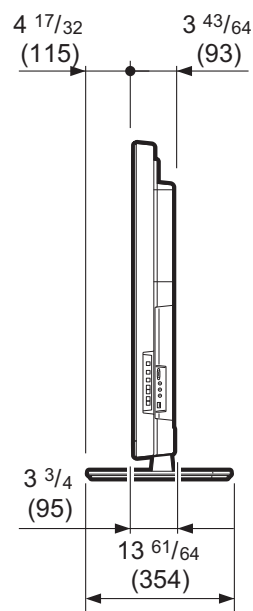
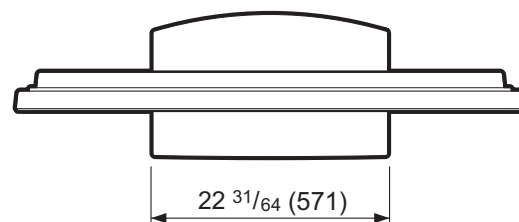
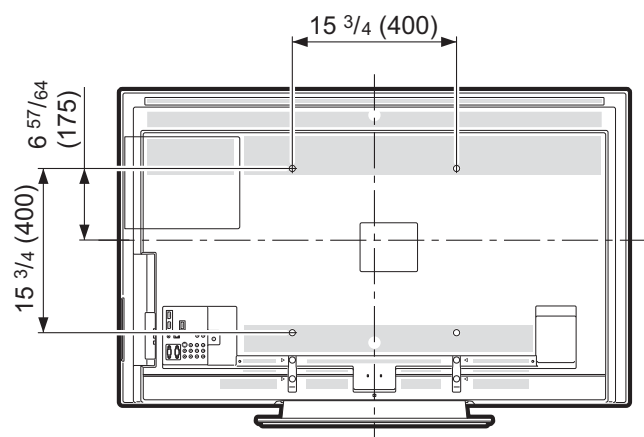
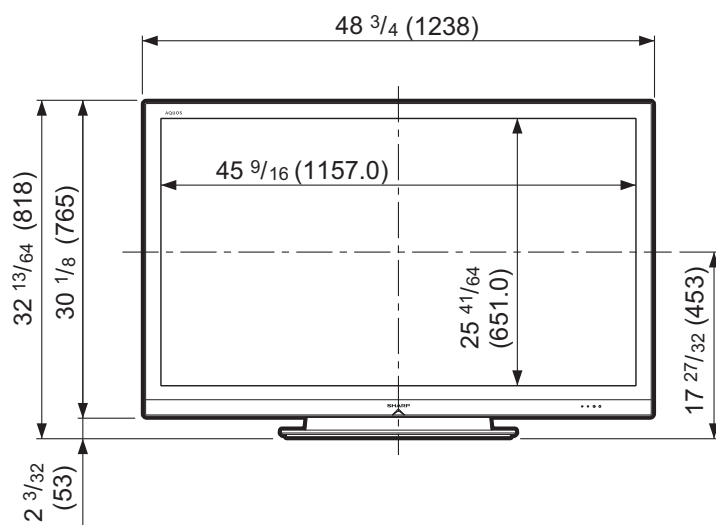
[1] DIMENSIONS (LC-C46700UN)

Unit: inch (mm)



AN-52AG4

Unit: inch (mm)



AN-52AG4

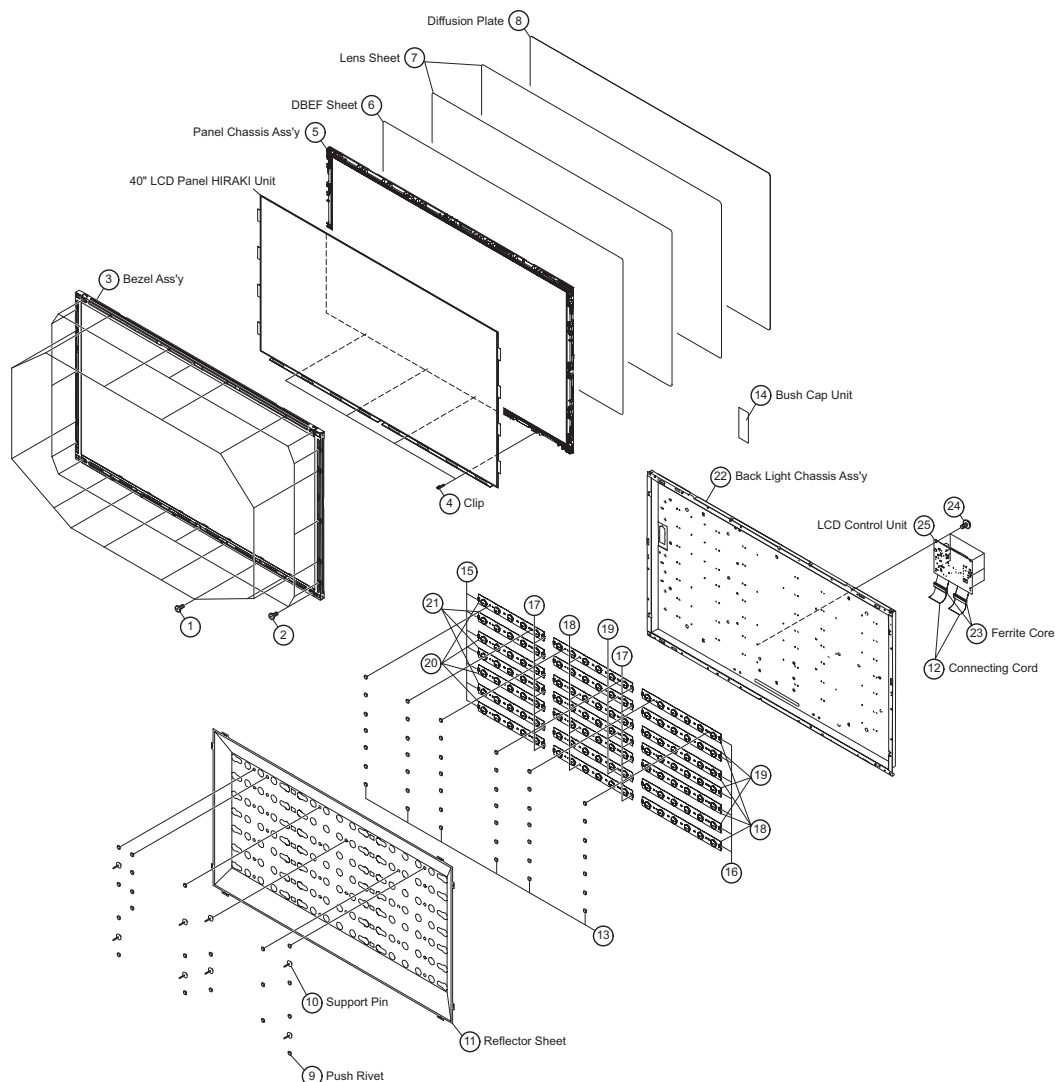
CHAPTER 4. REMOVING OF MAJOR PARTS

[1] REMOVING OF MAJOR PARTS

1. Removing of Bezel Ass'y, Panel Chassis Ass'y, Lens Sheet, Diffusion Plate, Back Light Chassis and LCD Control Unit (LC-40LE700UN(A)).

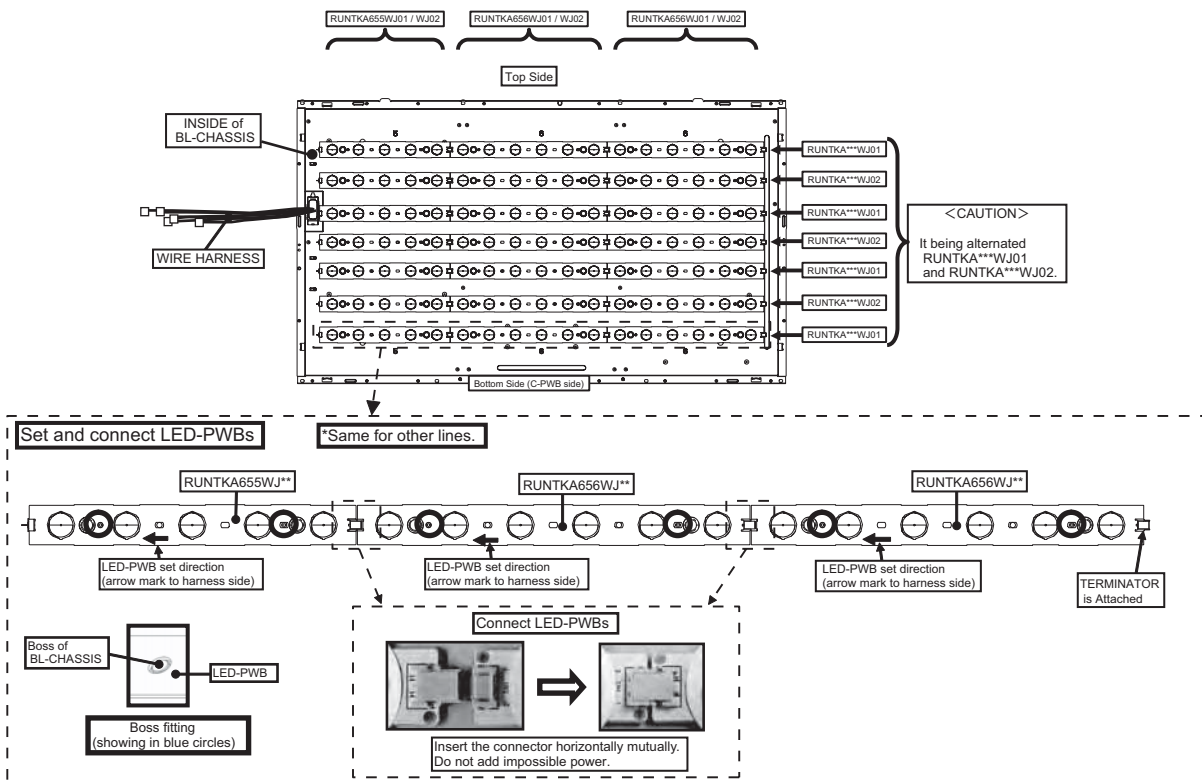
NOTE: A clean booth is required for repair of the component units and/ or parts (LCD Panel HIRAKI, LED PWB etc.) inside the LCD panel module unit.

1. Remove the 14 lock screws ①, 12 lock screws ② and detach the Bezel Ass'y ③.
2. Remove the 4 Clips ④ and detach the 40" LCD Panel HIRAKI Unit and Panel Chassis Ass'y ⑤.
3. Detach the DBEF Sheet ⑥ and 2 Lens Sheet ⑦ and Diffusion Plate ⑧.
4. Remove the 20 Push Rivets ⑨ and 8 Support Pins ⑩ and detach the Reflector Sheet ⑪.
5. Detach the 2 Connection Cords ⑫.
6. Remove the 42 Push Rivets ⑬.
7. Detach the Bush Cap Unit ⑭ and connecting cords from the 7 Connectors ⑮ of the LED5-PWB1/2 Unit.
8. Remove the 7 Terminators ⑯ and 14 connections ⑰ and detach the 8 LED6-PWB1 Units ⑱ and 6 LED6-PWB2 Units ⑲.
9. Detach the 4 LED5-PWB1 Units ⑳ and 3 LED5-PWB2 Units ㉑.
10. Detach the Back Light Chassis Ass'y ㉒.
11. Detach the 2 Ferrite Cores ㉓.
12. Remove the 6 lock screws ㉔ and detach the LCD Control Unit ㉕.



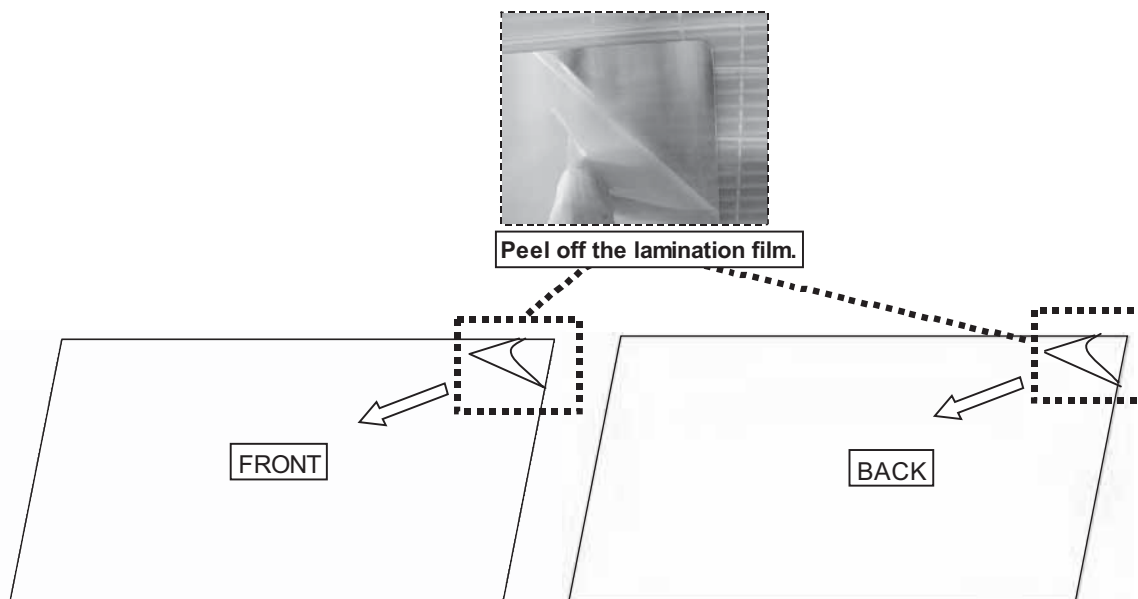
2. Handling notes (LC-40LE700UN(A)).

1. Set and connect LED-PWBs.



2. Peel off the lamination film of LENS SHEET on the both sides.

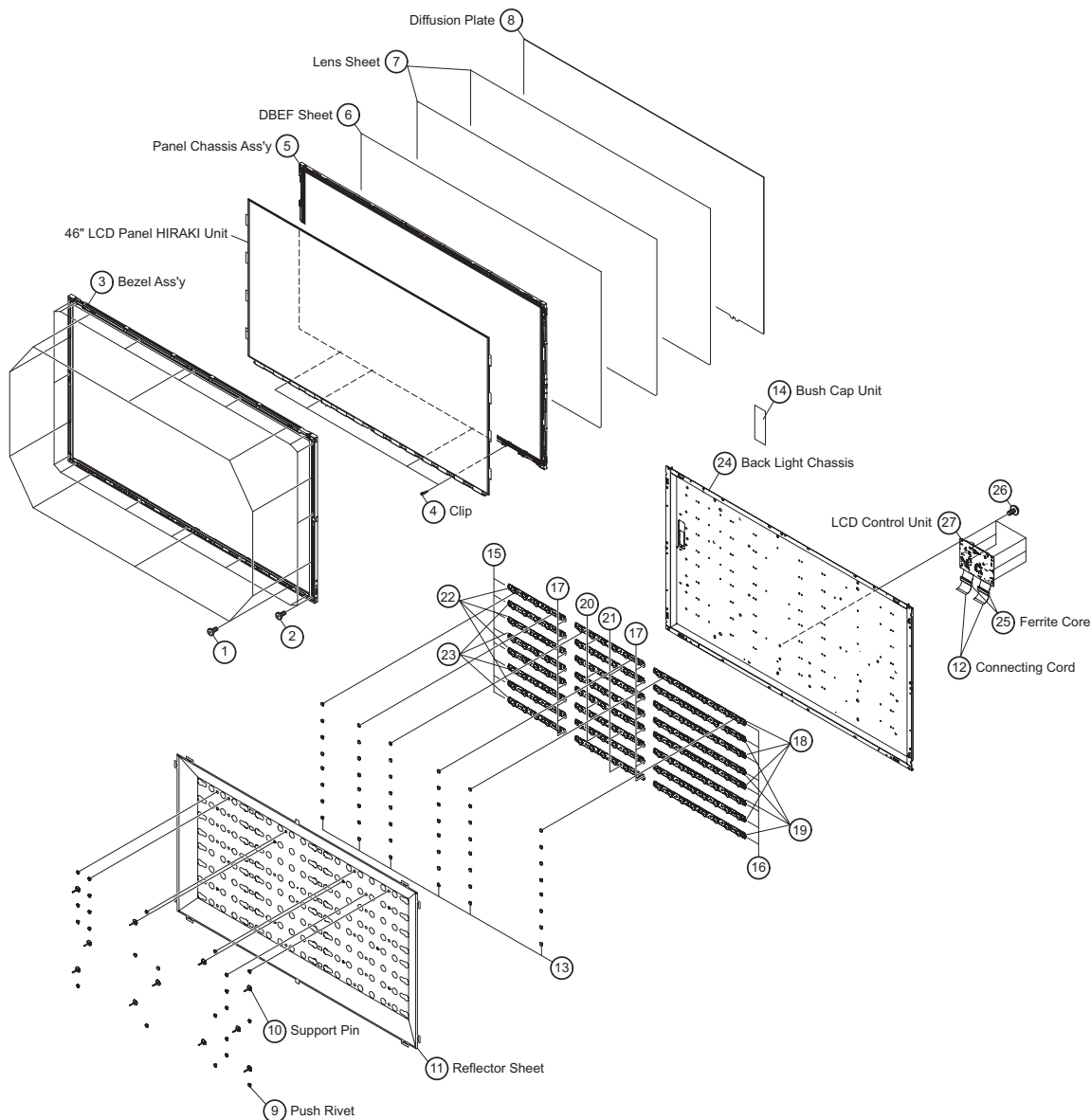
Peel off the lamination film of LENS SHEET on the both sides.



3. Removing of Bezel Ass'y, Panel Chassis Ass'y, Lens Sheet, Diffusion Plate, Back Light Chassis and LCD Control Unit (LC-46LE700UN(A)/LC-C46700UN).

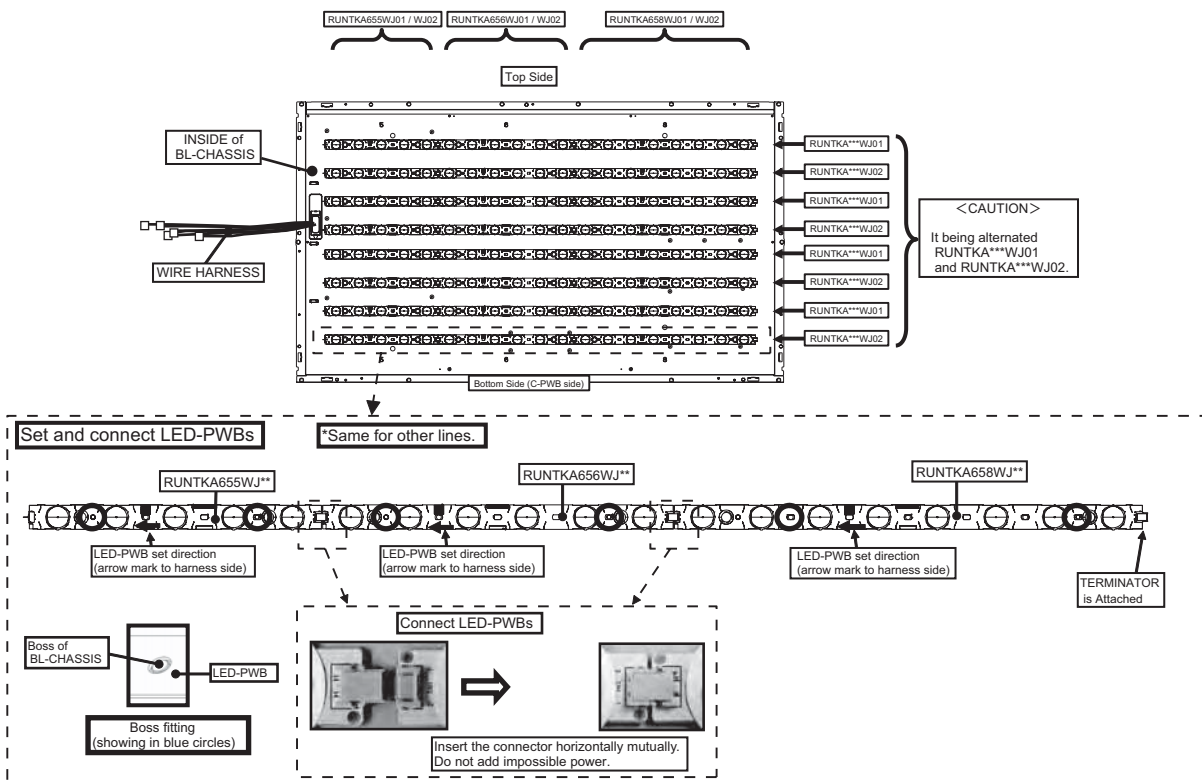
NOTE: A clean booth is required for repair of the component units and/ or parts (LCD Panel HIRAKI, LED PWB etc.) inside the LCD panel module unit.

1. Remove the 10 lock screws ①, 16 lock screws ② and detach the Bezel Ass'y ③.
2. Remove the 4 Clips ④ and detach the 46" LCD Panel HIRAKI Unit and Panel Chassis Ass'y ⑤.
3. Detach the DBEF Sheet ⑥ and 2 Lens Sheet ⑦ and Diffusion Plate ⑧.
4. Remove the 23 Push Rivets ⑨ and 11 Support Pins ⑩ and detach the Reflector Sheet ⑪.
5. Detach the 2 Connection Cords ⑫.
6. Remove the 48 Push Rivets ⑬.
7. Detach the Bush Cap Unit ⑭ and connecting cords from the 8 connectors ⑮ of the LED5-PWB1/2 Unit.
8. Remove the 8 Terminators ⑯ and 16 connections ⑰ and detach the 4 LED8-PWB1 Units ⑱, 4 LED8-PWB2 Units ⑲, 4 LED6-PWB1 Units ⑳ and 4 LED6-PWB2 Units ㉑.
9. Detach the 4 LED5-PWB1 Units ㉒ and 4 LED5-PWB2 Units ㉓.
10. Detach the Back Light Chassis ㉔.
11. Detach the 2 Ferrite Cores ㉕.
12. Remove the 6 lock screws ㉖ and detach the LCD Control Unit ㉗.



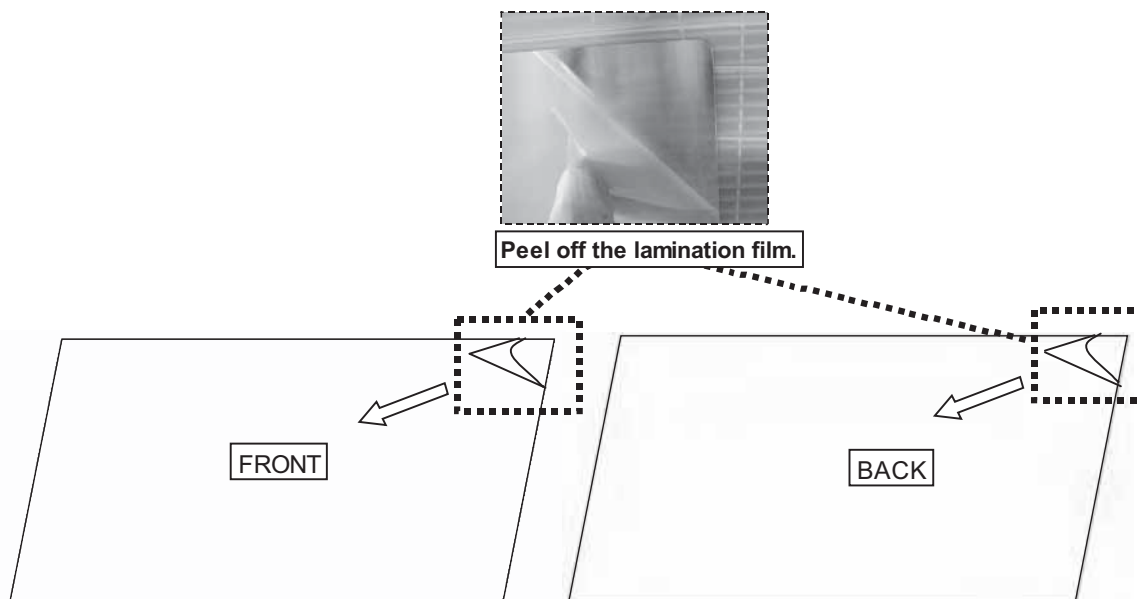
4. Handling notes (LC-46LE700UN(A)/LC-C46700UN).

1. Set and connect LED-PWBs.



2. Peel off the lamination film of LENS SHEET on the both sides.

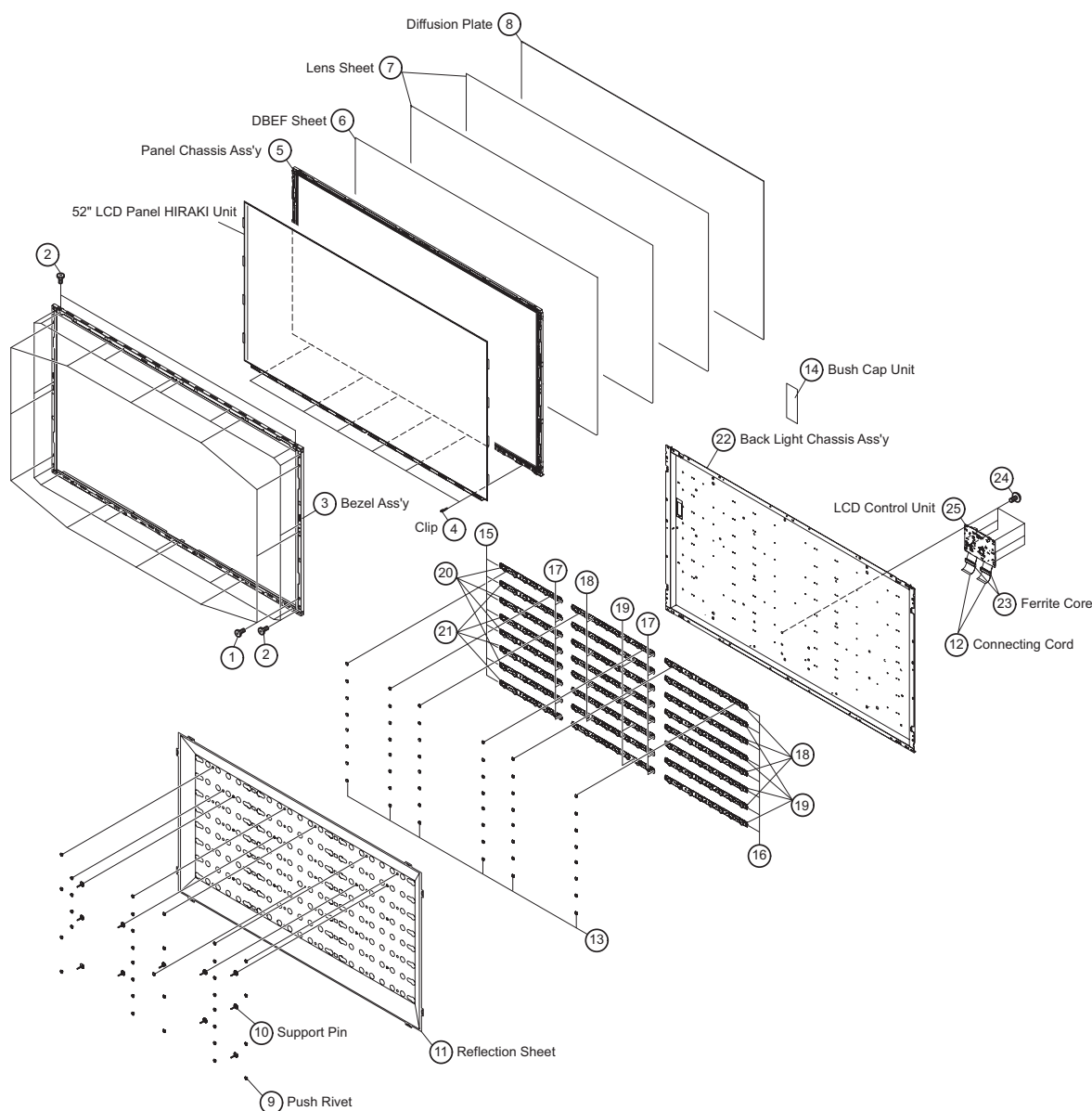
Peel off the lamination film of LENS SHEET on the both sides.



5. Removing of Bezel Ass'y, Panel Chassis Ass'y, Lens Sheet, Diffusion Plate, Back Light Chassis and LCD Control Unit (LC-52LE700UN(A)/LC-C52700UN).

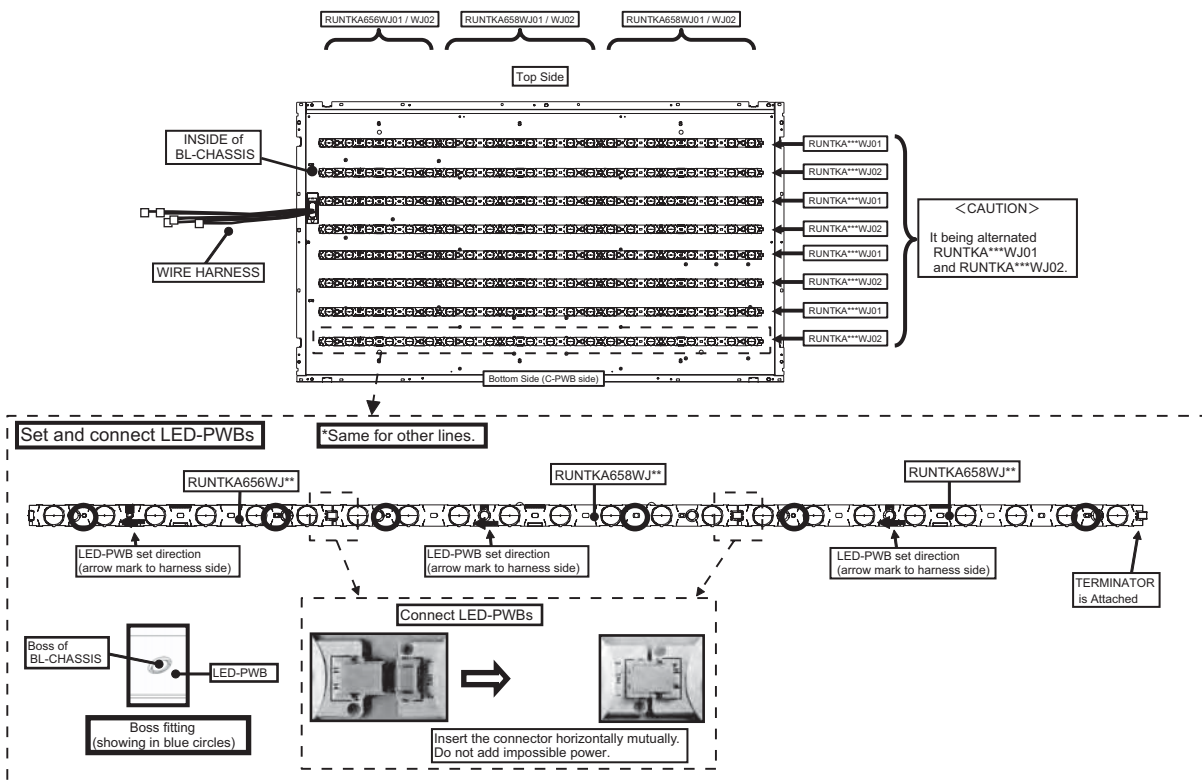
NOTE: A clean booth is required for repair of the component units and/ or parts (LCD Panel HIRAKI, LED PWB etc.) inside the LCD panel module unit.

1. Remove the 12 lock screws ①, 18 lock screws ② and detach the Bezel Ass'y ③.
2. Remove the 6 Clips ④ and detach the 52" LCD Panel HIRAKI Unit and Panel Chassis Ass'y ⑤.
3. Detach the DBEF Sheet ⑥ and 2 Lens Sheets ⑦ and Diffusion Plate ⑧.
4. Remove the 33 Push Rivets ⑨ and 11 Support Pins ⑩ and detach the Reflection Sheet ⑪.
5. Detach the 2 Connection Cords ⑫.
6. Remove the 48 Push Rivets ⑬.
7. Detach the Bush Cap Unit ⑭ and connecting cords from the 8 connectors ⑮ of the LED6-PWB1/2 Unit.
8. Remove the 8 Terminators ⑯ and 16 connections ⑰ and detach the 8 LED8-PWB1 Units ⑱ and 8 LED8-PWB2 Units ⑲.
9. Detach the 4 LED6-PWB1 Units ⑳ and 4 LED6-PWB2 Units ㉑.
10. Detach the Back Light Chassis Ass'y ㉒.
11. Detach the 2 Ferrite Cores ㉓.
12. Remove the 6 lock screws ㉔ and detach the LCD Control Unit ㉕.



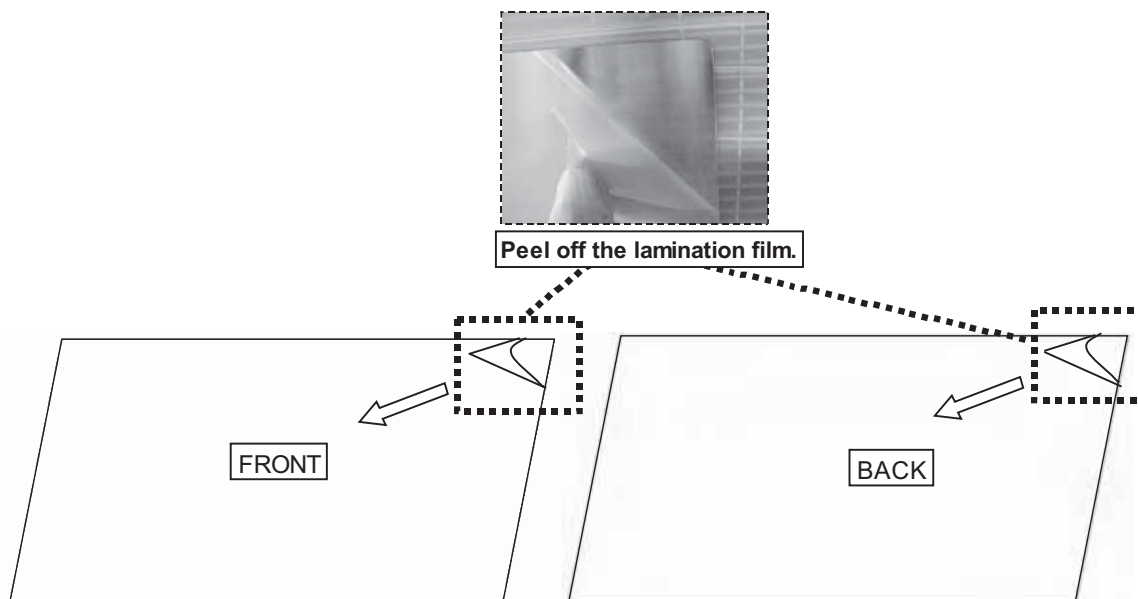
6. Handling notes (LC-52LE700UN(A)/LC-C52700UN).

1. Set and connect LED-PWBs.



2. Peel off the lamination film of LENS SHEET on the both sides.

Peel off the lamination film of LENS SHEET on the both sides.



CHAPTER 5. ADJUSTMENT

[1] ADJUSTMENT PROCEDURE

The adjustment values are set to the optimum conditions at the factory before shipping. If a value should become improper or an adjustment is required due to part replacement, make an adjustment according to the following procedure.

1. After replacement of any PWB unit and/or IC for repair, please note the following.

- When replacing the following units, make sure to prepare the new units loaded with updated software.

MAIN Unit: DKEYMF282FM10 (LC-40/46/52LE700UN(A))
DUNTKF282FM08 (LC-C46700UN/LC-C56700UN)

- When replacing the LCD control PWB, perform the VCOM adjustment.

2. Upgrading of each microprocessor software

CAUTION: Never "POWER OFF" the unit when software upgrade is ongoing.

Otherwise the system may be damaged beyond recovery.

2.1. Software version upgrade

The model employs the following software.

- Main software (please use a software version after HLNRBxxx.USB (32"HLNRCxxx.USB).)
- Monitor microprocessor software (please use a main software above and HLNRMxxx.BIN.)

The main software, monitor microprocessor software can be upgraded by using a general-purpose USB Memory.

The followings are the procedures for upgrading, explained separately for the main software, monitor microprocessor software.

2.2. Main software version upgrade

2.2.1 Get ready before you start

- USB Memory of 128MB or higher capacity.
- PC running on Windows 98/98SE/ME/2000/XP operating system.
- USB Memory reader/writer or PC with a USB port.
- The file system of a USB memory is FAT. (FAT32 supports)
- Use the USB memory without other functions. (lock and memory reader...etc)

2.2.2 Preparations

To upgrade the main software, it is necessary to get ready the USB Memory for version upgrade before you start.

Follow the steps below and create the USB Memory for version upgrade.

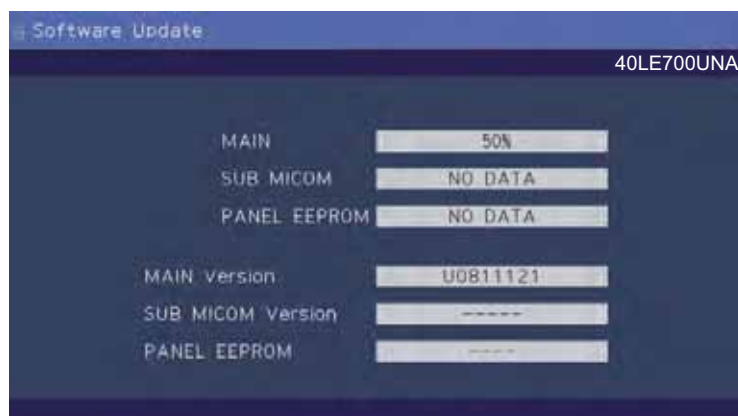
- Copy the file HLNRBxxx.USB (32"HLNRCxxx.USB). for version upgrade to the root directory (folder) of the USB Memory.

NOTE: In the USB Memory drive, do not store other folders or unrelated files, or more than one file for version upgrade.

Now the USB Memory for version upgrade is ready.

2.2.3 How to upgrade the software

1. Unplug the AC cord.
2. Insert the USB Memory for version upgrade (prepared as above) into the service socket located Right side of Main Board terminals, under INPUT3 terminal.
3. Plug in the AC cord with power button pressed down after 5 seconds, unpress the power button.
4. After the unit startup, the system upgrade screen as shown below appears within 20-40 seconds.



5. Even a single failure in the process will trigger the upgrade failure screen.



NOTE: In the event of a failure, repeat the upgrade process. If the process repeatedly fails, it is likely that the hardware need fixing.

6. Upon completion of the whole process, the upgrade success screen as shown below appears. You can check the new software version on this screen. The version information appears after the upgrade is complete.



7. Unplug the AC cord and remove the USB Memory for version upgrade.
8. Now the software version upgrade is complete.

NOTE: When you are done with the software version upgrade, start the set, go to the top page of the adjustment process screen and check the main software version information.

2.3. Monitor microprocessor software version upgrade

Create the USB memory for monitor microprocessor software version upgrade in the same manner as explained in the "Main software version upgrade".

Copy the main software USB file and HLNRMxxx.BIN (named temporarily) for monitor microprocessor software version upgrade to the USB memory.

CAUTION: Main software will be upgraded simultaneously. Please use latest, main software.

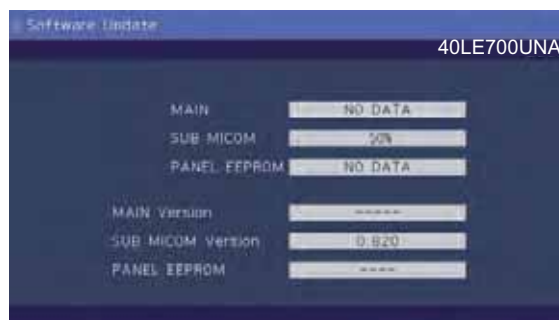
2.3.1 How to upgrade the software

1. Unplug the AC cord.
2. Insert the USB Memory for version upgrade (prepared as above) into the service socket located Right side of Main Board terminals, under INPUT3 terminal.
3. Plug in the AC cord with power button pressed down.
4. After 5 seconds, unpress the power button.

CAUTION: • The moment this operation is done, the upgrading of the monitor microprocessor software starts. While the upgrade is ongoing, never power off the unit. Otherwise the upgrade will fail and the system may be seriously damaged beyond recovery (inability to start).

- After the monitor microprocessor software is upgraded, also perform the 'Industry Init'.

5. After the unit startup, the upgrade starts. The power led will blink continuously. Also, an upgrade screen will be shown during a minor upgrade.



6. If the upgrade fails, power led will stop blinking. Also, the upgrade failure screen will be shown if upgrade screen was shown at 5.



NOTE: In the event of a transient failure, upgrade will be automatically retried up to three times. If the process repeatedly fails, hardware may be the cause.


7. Up on completion of the whole process, power and OPC LED will blink alternately. Also, the upgrade success screen will be shown if upgrade screen was shown at 5.




8. Unplug the AC cord and remove the USB Memory for version upgrade.
9. Now the software version upgrade is complete.

NOTE: When you are done with the software version upgrade, start the set, go to the top page of the adjustment process screen and check the monitor microprocessor software version information and panel size information.

3. Entering and exiting the adjustment process mode

- 1) Before entering the adjustment process mode, the AV position RESET in the video adjustment menu.
- 2) While holding down the "VOL (-)" and "INPUT" keys at a time, plug in the AC cord of the main unit to turn on the power.
The letter "<K>" appears on the screen.
- 3) Next, hold down the "VOL (-)" and "CH ()" keys at a time.

(The "VOL (-)" and "CH ()" keys should be pressed and held until the display appears.)

Multiple lines of blue characters appearing on the display indicate that the unit is now in the adjustment process mode.





When you fail to enter the adjustment process mode (the display is the same as normal startup), retry the procedure.

- 4) To exit the adjustment process mode after the adjustment is done, unplug the AC cord from the outlet to make a forced shutdown. (When the power was turned off with the remote controller, once unplug the AC cord and plug it again. In this case, wait 10 seconds or so before plugging.)

CAUTION: Use due care in handling the information described here lest your users should know how to enter the adjustment process mode. If the settings are tampered in this mode, unrecoverable system damage may result.

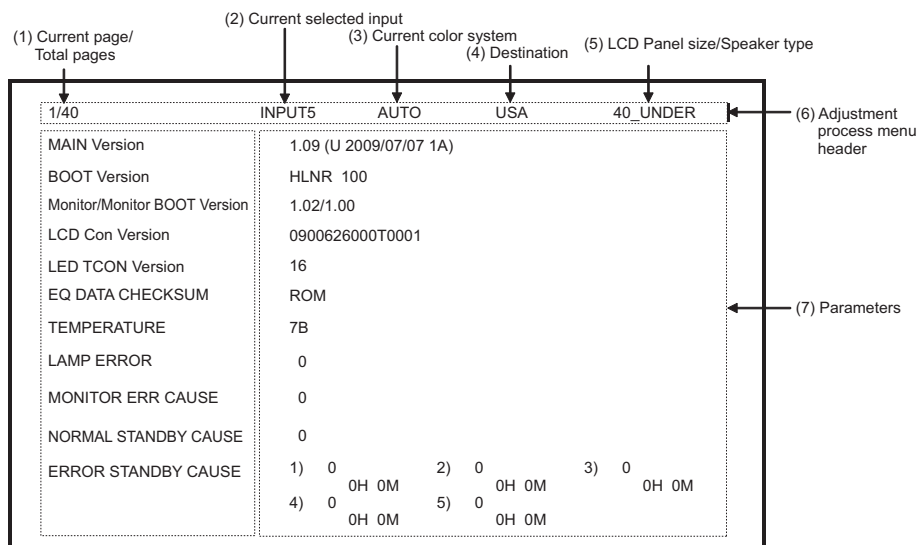
4. Remote controller key operation and description of display in adjustment process mode

- 1) Key operation

Remote controller key	Main unit key	Function
CH ( / )	CH ( / )	Moving an item (line) by one (UP/DOWN)
VOL (+/-)	VOL (+/-)	Changing a selected item setting (+1/-1)
Cursor (UP/DOWN)	_____	Turing a page (PREVIOUS/NEXT)
Cursor (LEFT/RIGHT)	_____	Changing a selected line setting (+10/-10)
INPUT	_____	Input switching (toggle switching)
ENTER	_____	Executing a function

*Input mode is switched automatically when relevant adjustment is started so far as the necessary input signal is available.

- 2) Description of display



5. List of adjustment process mode menu

The character string in brackets [] will appear as a page title in the adjustment process menu header.

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
1	1	MAIN Version	Main software version	Versions are always '090626000T0001'. Refer to *1 under the list for details Refer to *2 under the list for details
	2	BOOT ersion		
	3	Monitor/Monitor BOOT Version	Monitor and monitor boot software version	
	4	LCD Con Version	LCD controller software version	
	5	LED CON ersion		
	6	EQ DATA CHECKSUM	Audio data checksum	
	7	TEMPERATURE	Panel temperature	
	8	LAMP ERROR	Number of termination due to lamp error	
	9	MONITOR ERR CAUSE		
	10	NORMAL STANDBY CAUSE		
	11	ERROR STANDBY CAUSE		
2	1	INDUSTRY INIT	Initialization to factory settings	Level appears in green on the upper right
	2	INDUSTRY INIT (-Hotel)		
	3	PUBLIC MODE	Public mode	
	4	Center Acutime	Accumulated main operation time	
	5	RESET	Reset	
	6	Backlight Acutime	Accumulated monitor operation time	
	7	RESET	Reset	
	8	LAMP ERROR RESET	Reset LAMP ERROR	
	9	VIC XPOS	X-coordinate setting for VIC READ	
	10	VIC YPOS	Y-coordinate setting for VIC READ	
	11	VIC COLOR	Collected color data setting for VIC READ	
	12	VIC SIGNAL TYPE	Signal type setting for VIC READ	
	13	VIC READ	Picture level acquisition function	
3	1	N358 ALL ADJ (INPUT1)	CVBS and TUNER signal level adjustment	
	2	N358 ALL ADJ (INPUT3)		
	3	N358 MAIN ADJ (INPUT1)	CVBS signal level adjustment	
	4	N358 MAIN ADJ (INPUT3)		
	5	TUNER DAC ADJ	TUNER signal level adjustment	
	6	N358 CONTRAST A_GAIN		
	7	N358 CONTRAST D_GAIN		
	8	N358 CONTRAST OFFSET		
	9	TUNER CONTRAST A_GAIN		
	10	TUNER CONTRAST D_GAIN		
	11	TUNER CONTRAST OFFSET		
4	1	TUNER VCHIP TEST (69ch)	Tuning test and VCHIP test (69ch)	
	2	TUNER VCHIP TEST (7ch)	Tuning test and VCHIP test (7ch)	
	3	TUNER VCHIP TEST (10ch)	Tuning test and VCHIP test (10ch)	
	4	TUNER VCHIP TEST (15ch)	Tuning test and VCHIP test (15ch)	
	5	INSPECT USB TERM		
	6	HDMI EDID WRITE		
	7	HDMI CEC TEST		
5	1	COMP15K ADJ (INPUT1)	Component 15K picture level adjustment (main)	
	2	COMP15K ADJ (INPUT2)		
	3	COMP15K Y A_GAIN		
	4	COMP15K Cb A_GAIN		
	5	COMP15K Cr A_GAIN		
	6	COMP15K Y OFFSET		
	7	COMP15K Cb OFFSET		
	8	COMP15K Cr OFFSET		
6	1	COMP33K ADJ (INPUT1)	Component 33K picture level adjustment (main)	
	2	COMP33K ADJ (INPUT2)		
	3	COMP33K Y A_GAIN		
	4	COMP33K Cb A_GAIN		
	5	COMP33K Cr A_GAIN		
	6	COMP33K Y OFFSET		
	7	COMP33K Cb OFFSET		
	8	COMP33K Cr OFFSET		

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
7	1	ANALOG RGB ADJ	Analog RGB picture level adjustment	
	2	R A_GAIN		
	3	G A_GAIN		
	4	B A_GAIN		
	5	R OFFSET		
	6	G OFFSET		
	7	B OFFSET		
8	1	VCOM ADJ	VCOM adjustment value	
9	1	FRC N/OFF		
10	1	LEV1	Standard value 1	Adjustment gradation setting.
	2	LEV2	Standard value 2	
	3	LEV3	Standard value 3	
	4	LEV4	Standard value 4	
	5	LEV5	Standard value 5	
	6	LEV6	Standard value 6	
11	1	MG1R	WB adjustment Point 1, R adjustment value	Parameter for six-point adjustment
	2	MG1G	WB adjustment Point 1, G adjustment value	
	3	MG1B	WB adjustment Point 1, B adjustment value	
	4	MG2R	WB adjustment Point 2, R adjustment value	
	5	MG2G	WB adjustment Point 2, G adjustment value	
	6	MG2B	WB adjustment Point 2, B adjustment value	
	7	MG3R	WB adjustment Point 3, R adjustment value	
	8	MG3G	WB adjustment Point 3, G adjustment value	
	9	MG3B	WB adjustment Point 3, B adjustment value	
12	1	MG4R	WB adjustment Point 4, R adjustment value	Parameter for six-point adjustment
	2	MG4G	WB adjustment Point 4, G adjustment value	
	3	MG4B	WB adjustment Point 4, B adjustment value	
	4	MG5R	WB adjustment Point 5, R adjustment value	
	5	MG5G	WB adjustment Point 5, G adjustment value	
	6	MG5B	WB adjustment Point 5, B adjustment value	
	7	MG6R	WB adjustment Point 6, R adjustment value	
	8	MG6G	WB adjustment Point 6, G adjustment value	
	9	MG6B	WB adjustment Point 6, B adjustment value	
13	1	MODE SELECT		
	2	POS SELECT		
	3	POS IN M		
	4	POS ID1		
	5	POS ID2		
	6	POS ID3		
	7	POS ID4		
	8	POS ID5		
	9	POS ID6		
	10	POS MAX		
14	1	CD MIN		
	2	CD MID1		
	3	CD MID2		
	4	CD MID3		
	5	CD MID4		
	6	CD MID5		
	7	CD MID6		
	8	CD MAX		
15	1	CALC		
	2	RESET		
	3	VAL1		
	4	VAL2		
	5	VAL3		
	6	VAL4		
	7	VAL5		
	8	VAL6		

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
16	1	Audio Switch		
	2	Flat Mode		
	3	EEP STATUS INIT		
	4	Input Trim DTV		
	5	Input Trim ATV		
	6	Input Trim Digital		
	7	Input Trim Analog		
	8	ATT1 ainG		
	9	ATT2 ainG		
	10	ATT3 Gain		
17	1	Auto Volume Threshold		
	2	Auto Volume Ratio		
	3	MBE Base Gain		
	4	MBE Output Gain		
	5	MBE BPF		
	6	MBE Force otct Mode		
	7	MBE Bass G Limit		
	8	HPF C F		
18	1	MVS Width		
	2	MVS Xtalk		
	3	MVS Clarity		
	4	MVS LR Gain		
	5	MVS Output Gain		
	6	MVS Bass Gain		
	7	MVS FO		
19	1	Bass CENTER ATT		
	2	Bass ol0WMAX		
	3	Bass ol60 AXM		
	4	Bass Vol60 CENTER		
	5	Bass ol0WIN		
	6	Bass ol60 IN M		
	7	Treble CENTER ATT		
	8	Treble Vol0 MAX		
	9	Treble Vol60 MAX		
	10	Treble Vol60 CENTER		
	11	Treble Vol0 MIN		
	12	Treble Vol60 MIN		
20	1	PEQ0 F0		
	2	PEQ0 Q		
	3	PEQ0 Gain		
	4	PEQ0 G Limit		
	5	PEQ1 F0		
	6	PEQ1 Q		
	7	PEQ1 Gain		
	8	PEQ1 G Limit		
	9	PEQ2 F0		
	10	PEQ2 Q		
	11	PEQ2 Gain		
	12	PEQ2 G Limit		
21	1	PEQ3 F0		
	2	PEQ3 Q		
	3	PEQ3 Gain		
	4	PEQ3 G Limit		
	5	PEQ4 F0		
	6	PEQ4 Q		
	7	PEQ4 Gain		
	8	PEQ4 G Limit		
	9	PEQ5 F0		
	10	PEQ5 Q		
	11	PEQ5 Gain		
	12	PEQ5 G Limit		

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
22	1	PEQ6 F0		
	2	PEQ6 Q		
	3	PEQ6 Gain		
	4	PEQ6 G Limit		
	5	PEQ7 F0		
	6	PEQ7 Q		
	7	PEQ7 Gain		
	8	PEQ7 G Limit		
	9	PEQ8 F0		
	10	PEQ8 Q		
	11	PEQ8 Gain		
	12	PEQ8 G Limit		
23	1	AVC_L Fc		
	2	AVC_L Target Level		
	3	AVC_L Max Gain UP		
	4	AVC_L Attack Rate		
	5	AVC_L Release Rate		
	6	AVC_H Target Level		
	7	AVC_H Max MainG P U		
	8	AVC_H Attack Rate		
	9	AVC_H Release Rate		
24	1	Sub Vol. SP		
	2	Sub Vol. MON		
	3	Sub Vol. HP		
	4	Sub Vol. SW		
	5	Sub Vol. OPT		
	6	Clip Level SP		
	7	Clip Level MON		
	8	Clip Level HP		
	9	Clip Level SW		
	10	Clip Level OPT		
25	1	PANNEL SELECT		
	2	PWM		
	3	PWM REQ		
	4	PWM DUTY		
	5	OSC REQ		
	6	OSC DUTY		
26	1	BRIGHTNESS DA0		
	2	BRIGHTNESS DA1		
	3	BRIGHTNESS DA2		
	4	BRIGHTNESS DA3		
	5	BRIGHTNESS DA4		
	6	BRIGHTNESS DA5		
	7	BRIGHTNESS DA6		
	8	BRIGHTNESS DA7		
	9	BRIGHTNESS DA8		
	10	BRIGHTNESS DA9		
	11	BRIGHTNESS DA10		
	12	BRIGHTNESS DA11		
27	1	BRIGHTNESS DA12		
	2	BRIGHTNESS DA13		
	3	BRIGHTNESS DA14		
	4	BRIGHTNESS DA15		
	5	BRIGHTNESS DA16		
	6	BRIGHTNESS DA17		
	7	BRIGHTNESS DA18		
	8	BRIGHTNESS DA19		
	9	BRIGHTNESS DA20		
	10	BRIGHTNESS DA21		
	11	BRIGHTNESS DA22		

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
28	1	BRIGHTNESS DA23		
	2	BRIGHTNESS DA24		
	3	BRIGHTNESS DA25		
	4	BRIGHTNESS DA26		
	5	BRIGHTNESS DA27		
	6	BRIGHTNESS DA28		
	7	BRIGHTNESS DA29		
	8	BRIGHTNESS DA30		
	9	BRIGHTNESS DA31		
	10	BRIGHTNESS DA32		
29	1	OPC33 ADLEVEL 0		
	2	OPC33 ADLEVEL 1		
	3	OPC33 ADLEVEL 2		
	4	OPC33 ADLEVEL 3		
	5	OPC33 ADLEVEL 4		
	6	OPC33 ADLEVEL 5		
	7	OPC33 ADLEVEL 6		
	8	OPC33 ADLEVEL 7		
	9	OPC33 ADLEVEL 8		
	10	OPC33 ADLEVEL 9		
	11	OPC33 ADLEVEL 10		
	12	OPC33 ADLEVEL 11		
30	1	OPC33 ADLEVEL 12		
	2	OPC33 ADLEVEL 13		
	3	OPC33 ADLEVEL 14		
	4	OPC33 ADLEVEL 15		
	5	OPC33 ADLEVEL 16		
	6	OPC33 ADLEVEL 17		
	7	OPC33 ADLEVEL 18		
	8	OPC33 ADLEVEL 19		
	9	OPC33 ADLEVEL 20		
	10	OPC33 ADLEVEL 21		
	11	OPC33 ADLEVEL 22		
31	1	OPC33 ADLEVEL 23		
	2	OPC33 ADLEVEL 24		
	3	OPC33 ADLEVEL 25		
	4	OPC33 ADLEVEL 26		
	5	OPC33 ADLEVEL 27		
	6	OPC33 ADLEVEL 28		
	7	OPC33 ADLEVEL 29		
	8	OPC33 ADLEVEL 30		
	9	OPC33 ADLEVEL 31		
32	1	V6 OS THERMO 1		
	2	V6 S THERMO 2		
	3	V6 S THERMO 3		
	4	V6 S THERMO 4		
	5	V6 S THERMO 5		
	6	V6 S THERMO 6		
	7	V6 S THERMO 7		
33	1	V5 OS THERMO 1		
	2	V5 S THERMO 2		
	3	V5 S THERMO 3		
	4	V5 S THERMO 4		
	5	V5 S THERMO 5		
	6	V5 S THERMO 6		
	7	V5 S THERMO 7		
34	1	BL TEMP1		
	2	BL EMP2		
	3	BL DUTY		
35	1	MONITOR TIME OUT		
	2	MONITOR MAX TEMP		
	3	MONITOR ERROR CAUSE RESET		

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
36	1	LCD TEST PATTERN		
	2	LCD AGI TEST PATTERN		
	3	LCD EVA TEST PATTERN		
	4	YEL TEST PATTERN		
	5	TV TEST PATTERN 1		
	6	TV TEST PATTERN 2		
37	1	REGISTER ADDRESS LOWER		
	2	READ/WRITE		
	3	SLAVE ADDRESS		
	4	REGISTER ADDRESS UPPER		
	5	WRITE DATA UPPER		
	6	WRITE DATA LOWER		
	7	READ DATA UPPER		
	8	READ DATA LOWER		
38	1	KEY LOCK(1217)		
	2	KOUTEI AREA ALL CLEAR		
	3	A MODE AREA CLEAR		
	4	BACKUP AREA CLEAR		
	5	B MODE AREA CLEAR		
	6	EXECUTION		
39	1	ERROR STANDBY CAUSE1		
	2	ERROR STANDBY CAUSE2		
	3	ERROR STANDBY CAUSE3		
	4	ERROR STANDBY CAUSE4		
	5	ERROR STANDBY CAUSE5		
	6	ERROR STANDBY CAUSE RESET		
40	1	EEP SAVE	Writing setting values to EEPROM Reading setting values from EEPROM Must be "Low". Don't change	
	2	EEP RECOVER		
	3	MODL AME		
	4	PANEL SIZE		
	5	SETTING FOR ADJ		
	6	PANEL LIMIT		
	7	PANEL RANGE LIMIT		
	8	SHORT CHECK MODE		
	9	SHORT CHECK CURRENT		
	10	CURRENT SW		

***1 Details of P1.9 (NORMAL STANDBY CAUSE)**

- | | | |
|---|----------------------------|--------------------------------------|
| 2 | No operation off | in the cause of "no operation off" |
| 3 | No signal off | in the cause of "no signal off" |
| 4 | PC power management mode 1 | in the cause of "Standby mode MODE1" |
| 5 | PC power management mode 2 | in the cause of "Standby mode MODE2" |
| 6 | Off timer | in the cause of "SLEEP timer" |
| 8 | Command from RS232C | in the cause of command by RS-232C |

***2 Details of P1.10 (ERROR STANDBY CAUSE)**

11	Prolonged unspecified-signal input in PC mode	in the cause of continuous "out of range", PC input mode
17	Temperature error	in the cause of abnormal temperature
1A	Monitor trouble detected	in the cause of abnormal monitor mode
22	LCD controller Rom error	in the cause of software abnormality of LCD controller

6. Special features*** STANDBY CAUSE (Page 1/40)**

Display of a cause (code) of the last standby

The cause of the last standby is recorded in EEPROM whenever possible.

Checking this code will be useful in finding a problem when you repair the troubled set.

*** EEP SAVE (Page 40/40)**

Storage of EEP adjustment value

*** EEP RECOVER (Page 40/40)**

Retrieval of EEP adjustment value from storage area

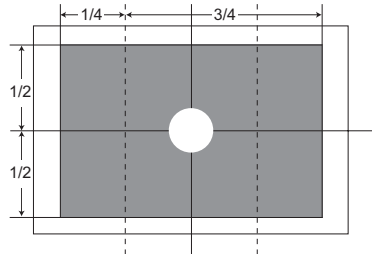
7. Microcomputer software writing**7.1. Main microcomputer/monitor microcomputer software writing (Main PWB: QPWBXF282WJZZ)**

	Adjustment item	Adjustment conditions	Adjustment procedure
1	Main microcomputer/monitor microcomputer software writing <Main PWB>	Software Version Up File version check USB memory check * When IC is failure	1. Connect the given jig to SC9301 (TL9301-TL9309, TL9311-TL9316) using the checker. 2. Connect the USB memory to J8001 (TL8003-8006) using the checker. 3. Apply the specified voltage to the main PWB and perform boot from the jig. 4. Send the software writing start command using RS232C. 5. Send the writing status check command and confirm the response of OK. Then turn off the power. CAUTION: When the USB memory is not inserted or reading error occurs, nothing is written.

7.2. Model/inch discrimination writing (Main PWB: QPWBXF282WJZZ)

- When writing the sub microcomputer software, the model data is configured with the software from the USB memory mounted to the checker.
- Reference and setting change are enabled through the process menu and RS-232C communication.

8. Signal adjustment**8.1. LCD section adjustment [LCD module adjustment]**

	Adjustment item	Adjustment conditions	Adjustment procedure
1	Opposite bias adjustment (LCD module adjustment item)	Adjustment in the center position of the panel	1) Enter the process mode using the process adjustment remote control. 2) Select [VCOM ADJ] using the Channel ↑, ↓ keys on the remote control. 3) Press the Enter key to check that the pattern for adjustment is displayed. 4) Make adjustment so that the flicker located in the center of the screen is minimized using the Volume +/- keys on the remote control. 5) If the status is optimized in step 4, press the Enter key to turn off the pattern. CAUTION: * Make adjustment without ANT signal (since the active backlight changes the brightness). [Adjustment position] 

8.2. Video Signal adjustment Procedure

8.2.1 Signal check

■ Before adjustment, check that the adjustment jig and signal source are set for Sharp LCD US.

Signal adjustment works at only the default ViewMode.

Before adjustment, confirm the ViewMode is set as follows.

Composite/Tuner	S.Stretch
Comp15k S.S	tretch
Comp33k	Stretch
Analog RGB	Stretch

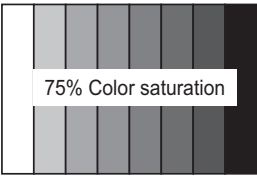
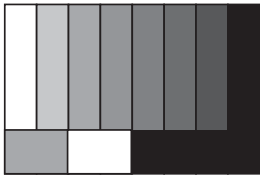
■ Signal generator level adjustment check (Adjust to the standard value level.)

- Composite signal: 0.714Vp-p \pm 0.02Vp-p (Pedestal to white level)
- 15K component signal: Y level: 0.714Vp-p \pm 0.02Vp-p (Pedestal to white level)
PB/PR level: 0.7Vp-p \pm 0.02Vp-p
- 33K component signal: Y level: 0.7Vp-p \pm 0.02Vp-p (Pedestal to white level)
PB/PR level: 0.7Vp-p \pm 0.02Vp-p
- Analog RGB: RGB level: 0.7Vp-p \pm 0.02Vp-p (Pedestal to white level)

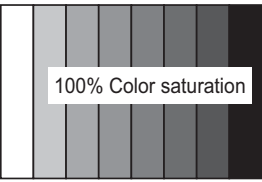
8.2.2 Process mode

Adjustment point	Adjustment conditions	Adjustment procedure
Process mode		Enter the process adjustment mode using the process adjustment remote control.

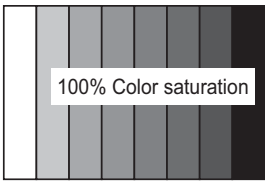
8.2.3 Composite N358 signal/tuner adjustment

Adjustment point	Adjustment conditions	Adjustment procedure
1 Setting	N358 signal US-10ch	<ul style="list-style-type: none"> • Send the N358 color bar (color saturation: 75%) signal to the Video 1 video input. • Send the in-house signal (use US-10ch) to TUNER. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>[Video input signal]</p>  <p>↑ 100% white</p> </div> <div style="text-align: center;"> <p>[US-10CH]</p>  <p>↑ 100% white</p> </div> </div>
2 Automatic adjustment execution		Point the cursor to [■ N358 ALL ADJ(INPUT1)] and press the [Enter] key. The adjustment is complete when [■ N358 ALL ADJ(INPUT1) OK] is displayed.

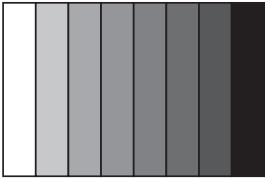
8.2.4 Component 15K signal adjustment

Adjustment point	Adjustment conditions	Adjustment procedure
1 Setting	480i signal	<ul style="list-style-type: none"> • Send the 100% color bar signal to the Video 1 component input. <div style="text-align: center;">  <p>↑ 100% white ↑ 0% black</p> </div> <p>480i 100% color bar</p>
2 Automatic adjustment execution		Point the cursor to [■ COMP15K ADJ(INPUT1)] and press the [OK] key. The adjustment is complete when [■ COMP15K ADJ(INPUT1) OK] is displayed.

8.2.5 Component 33K signal adjustment

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	1080i signal	<ul style="list-style-type: none"> Send the 100% color bar signal to the Video 1 component input.  <p>1080i 100% color bar</p> <p>↑ 100% white ↑ 0% black</p>
2	Automatic adjustment execution		Point the cursor to [■COMP33K ADJ(INPUT1)] and press the [OK] key. The adjustment is complete when [■COMP33K ADJ(INPUT1) OK] is displayed.

8.2.6 Analog RGB signal adjustment

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	Analog RGB Signal: XGA (1024x768) 60Hz SYNC: HV separate	<ul style="list-style-type: none"> Send the 100% color bar signal to the Video 4 analog RGB input.  <p>XGA (1024x768) 100% color bar</p> <p>↑ 100% white ↑ 0% black</p>
2	Automatic adjustment execution		Point the cursor to [■ANALOG RGB ADJ] and press the [OK] key. The adjustment is complete when [■ANALOG RGB ADJ OK] is displayed.

8.2.7 Tuner/V-CHIP adjustment

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	NTSC RF signal US-7 (AIR)ch	<ul style="list-style-type: none"> Send the NTSC signal to the RF antenna input.
2	Automatic adjustment execution		Point the cursor to [■TUNER VCHIP TEST(*07ch)] and press the [OK] key. (* Adjust the selected channel to the in-house signal.) The adjustment is OK when [■A-OK(**.*)/VM-OK] is displayed in green. (NG when A-NG/VM-NG is displayed in red.) It is OK when the deviation from the center frequency is $\pm 0.0625\text{MHz}$ or less.

9. White balance adjustment

9.1. White balance adjustment (For details about the adjustment procedure, refer to “Kameyama Model Integrated Monitor WB Adjustment Specification V1.4”.)

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting		1) Set the set to the following conditions. AV MODE: [DYNAMIC] Backlight: +16 Active Backlight: OFF Aging Time: Min. 60 minutes 2) Connect the set with the white balance adjustment jig.
2	Automatic adjustment execution	[Command] Process mode KRSW0001 KKT10037 Setting KYOF0000 OSDS0001 SBSL0016 Multi-point adjustment mode MSET0001 Point 6 WBI60928 MG6G**** MG6B**** MG6R**** Point 5 WBI50776 MG5G**** MG5B**** MG5R**** Point 4 WBI40560 MG4G**** MG4B**** MG4R**** Point 3 WBI30308 MG3G**** MG3B**** MG3R**** Point 2 WBI20224 MG2G**** MG2B**** MG2R**** Point 1 WBI10184 MG1G**** MG1B**** MG1R**** Writing MSET0003	[Adjustment procedure] 1) Transmit the “adjustment process” code using the remote control. 2) Set the point 6 to the specified gradation, specify the strongest color as the fixed color, and adjust the RGB so that it becomes the standard value through negative adjustment. 3) Set the point 5 to the specified gradation, set the G correction value $(3104 \times G \text{ value of point } 6/3712)$ (fractions rounded off), and adjust the RB so that it becomes the standard value. 4) Set the point 4 to the specified gradation, set the G correction value $(2240 \times G \text{ value of point } 6/3712)$ (fractions rounded off), and adjust the RB so that it becomes the standard value. 5) Set the point 3 to the specified gradation, set the G correction value $(1232 \times G \text{ value of point } 6/3712)$ (fractions rounded off), and adjust the RB so that it becomes the standard value. 6) Set the point 2 to the specified gradation, set the G correction value $(896 \times G \text{ value of point } 6/3712)$ (fractions rounded off), and adjust the RB pattern so that it becomes the standard value. 7) Set the point 1 to the specified gradation, set the G correction value $(736 \times G \text{ value of point } 6/3712)$ (fractions rounded off), and adjust the RB so that it becomes the standard value. 8) Write the adjustment value by the MSET0003 command and turn off the AC power. * RGB initial value of point 6: Set gradation 3712 * RGB initial value of points 1 to 5: G correction value of each point (At each point, adjustment is made so that the remainder of the RGB adjustment value/4 is equal.) CAUTION: After executing test pattern output command, video delay until pattern output arises. Therefore, measure the chromaticity and brightness after waiting more than the following wait time from reply of “OK”. (Maximum amount of total delay of the main microcomputer and LCD controller) [Adjustment value] * According to the “Standard settings” submitted by the Technical Department [Adjustment standard value] Measuring instrument: [Minolta CA-210] Technical measuring instrument Amount of video delay: 70ms

	Level	Reference value	Adjustment spec	Inspection spec
Point 6	928	X=0.272 y=0.277	±0.0010	±0.0020
Point 5	776	X=0.272 y=0.277	±0.0010	±0.0020
Point 4	560	X=0.272 y=0.277	±0.0020	±0.0040
Point 3	308	X=0.272 y=0.277	±0.0020	±0.0040
Point 2	224	X=0.272 y=0.277	±0.0030	±0.0060
Point 1	184	X=0.272 y=0.277	±0.0035	±0.0070
Remarks		Setting conditions when performing inspection AV MODE: [DYNAMIC] (Reset) Monochro: ON Active Backlight: OFF Aging Time: Min. 60 minutes		

9.2. Adjusting procedure by use of [RS-232C]

1. Get ready the PC with COM port (RS-232C) running on Windows 95/98/ME/2000/XP operating system, as well as the RS-232C cross cable.
2. Start the unit with the RS-232C cable connected.
3. Start the terminal software. (The freeware readily available on the Internet will do.)
4. Make the following settings.

Baud rate	9,600 bps
Data LENGTH	8 bit
Parity bit	None
Stop bit	1 bit
Flow control	None

5. If the settings are correct, the terminal software indicates "ERR" against pressing of the "ENTER" key.
6. After the settings are done correctly, it is possible to make an adjustment by typing in the command shown in the table below and pressing the "ENTER" key on the keyboard.
7. Command entry is successful if the terminal software indicates "OK" when the "ENTER" is pressed. If "ERR" is shown, retry to enter the command.
8. Send the process mode switching command to switch from the RS232C operation mode to the process mode.
KRSW0001: "ERR" is returned.
KKT10037: When "OK" is returned, the process mode becomes active. When "ERR", start over from KRSW0001.
9. Send each adjustment command.

10. Key writing

10.1. EDID writing (Main PWB: QPWBXF282WJZZ, LCD Control PWB: QPWBXF239WJN1)

	Adjustment point	Adjustment conditions	Adjustment procedure
1	HDMI EDID writing (Main PWB)	Process mode Model discrimination check	1) Enter the process mode. 2) Point the cursor to [HDMI EDID WRITE] and press the [ENT] key. The writing is complete when [OK] is displayed. (If not written, HDMI does not function.) CAUTION: Perform the data writing after setting the model discrimination. The data based on the model discrimination information is recorded in EEPROM.
2	Analog RGB EDID writing (Main PWB)	Inspection mode File version check	1) Write the EDID data for analog RGB into IC1809 mounted on the main PWB. TL1821 ●● I2C clock, TL1823 ●● I2C data TL1824 ●● 5V, TL1822 ●● GND TL1848 ●● Write protection (H: WP, L: write enable) 2) Perform the data writing before making inspection using the checker.
2	LCD Control writing (LCD Control PWB)	Inspection mode File version check	1) Write the ROM data for LCD Control into IC6151 mounted on the LCD Control PWB. TL6151/6158 ●● LOAD_MASK, TL6152/6159 ●● WEPROM TL6153 ●● GND, TL6154/6160 ●● SCLK TL6155/6161 ●● SOUT, TL6156/6162 ●● SIN TL6157/6163 ●● CS 2) Perform the data writing before making inspection using the checker.

10.2. MAC address writing (Main PWB: QPWBXF282WJZZ)

1. Write the MAC key data into IC8453 mounted on the MAIN PWB via RS232C.
2. The data must be written before making the inspection using the checker.

* Model for LC-C52700UN/C46700UN No write

11. Factory setting

After completing the factory setting, pull out the AC cord to complete the setting.

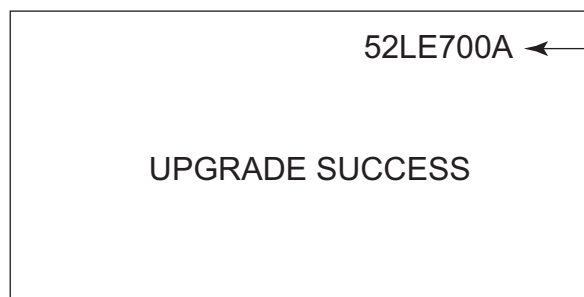
CAUTION: Do not turn on the power after completing the factory setting. If the power is turned on, configure the factory setting again.

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Factory setting	Complete the setting by pulling out the AC cord.	<ul style="list-style-type: none"> Point the cursor to [INDUSTRY INIT (+Cause)], set to "ON" using [+] / [-] of the [VOL] key, and press the [ENT] key. The version confirmation screen appears on the green screen. It is completed when [SUCCESS] is displayed at the top. (If error occurs, [ERROR] is displayed on the red screen.) Turn off the AC power. <p>The following items are initialized when configuring the factory setting.</p> <ol style="list-style-type: none"> 1) User setting values 2) Channel data (broadcasting frequency, etc.) 3) Password setting value 4) Operating time 5) Standby Cause 6) Auto installation flag 7) V-CHIP block setting value

12. Writing the inch and model name onto EEPROM

Writing method

1. Pull out the AC cord.
2. Copy the application for writing inch/model name (HLNRMA02.USB (32"HLNRM02.USB)) and model/inch file (40LE700A.MDL) to the USB memory.
3. Hold down the power button and insert the AC cord.
4. Release the power button after 5 seconds.
5. Update starts.



The inch and model name are displayed.

6. Pull out the AC cord.

Model/inch file

- 40LE700A.MDL
- 46LE700A.MDL
- 52LE700A.MDL
- 46C700.MDL
- 52C700.MDL

NOTE: When replacing the main PWB, make sure to perform the writing the inch and model name onto EEPROM

SHARP PARTS GUIDE

No. S99C7LC40LE70

LCD COLOR TELEVISION



LC-40LE700UN(A)
LC-46LE700UN(A)
LC-52LE700UN(A)
LC-C46700UN
MODELS LC-C52700UN

Note:

The reference numbers on the PWB are arranged in alphabetical order.

CONTENTS

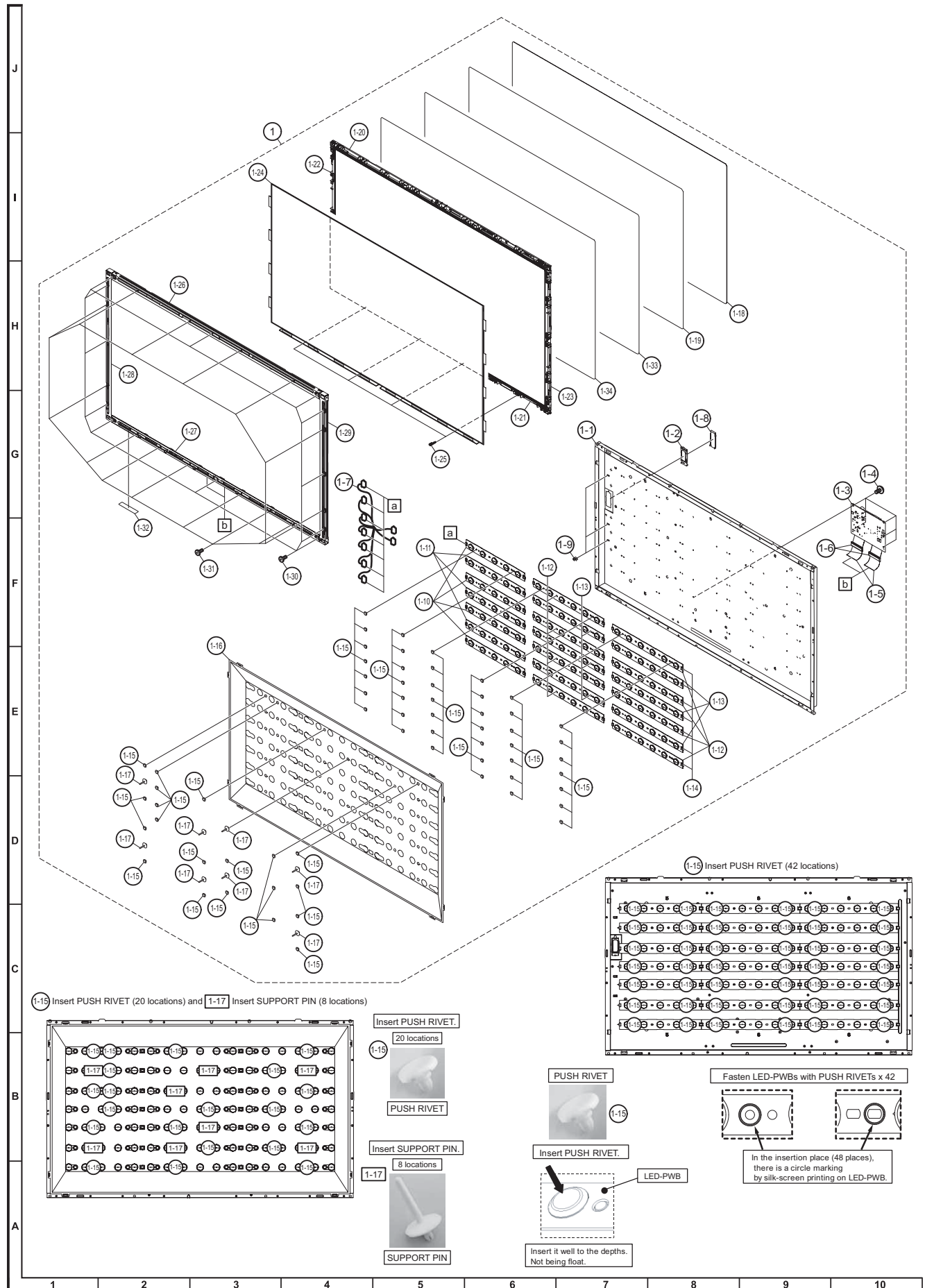
- | | |
|--|--|
| [1] PRINTED WIRING BOARD ASSEMBLIES | [6] LCD PANEL MODULE (LC-46LE700UN(A)/C46700UN) |
| [2] LCD PANEL | [7] CABINET PARTS (LC-52LE700UN(A)/C52700UN) |
| [3] CABINET PARTS (LC-40LE700UN(A)) | [8] LCD PANEL MODULE (LC-52LE700UN(A)/C52700UN) |
| [4] LCD PANEL MODULE (LC-40LE700UN(A)) | [9] SUPPLIED ACCESSORIES (LC-C46700UN/C52700UN) |
| [5] CABINET PARTS (LC-46LE700UN(A)/C46700UN) | [10] PACKING PARTS (LC-C46700UN/C52700UN) (NOT REPLACEMENT ITEM) |

Parts marked with "▲" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

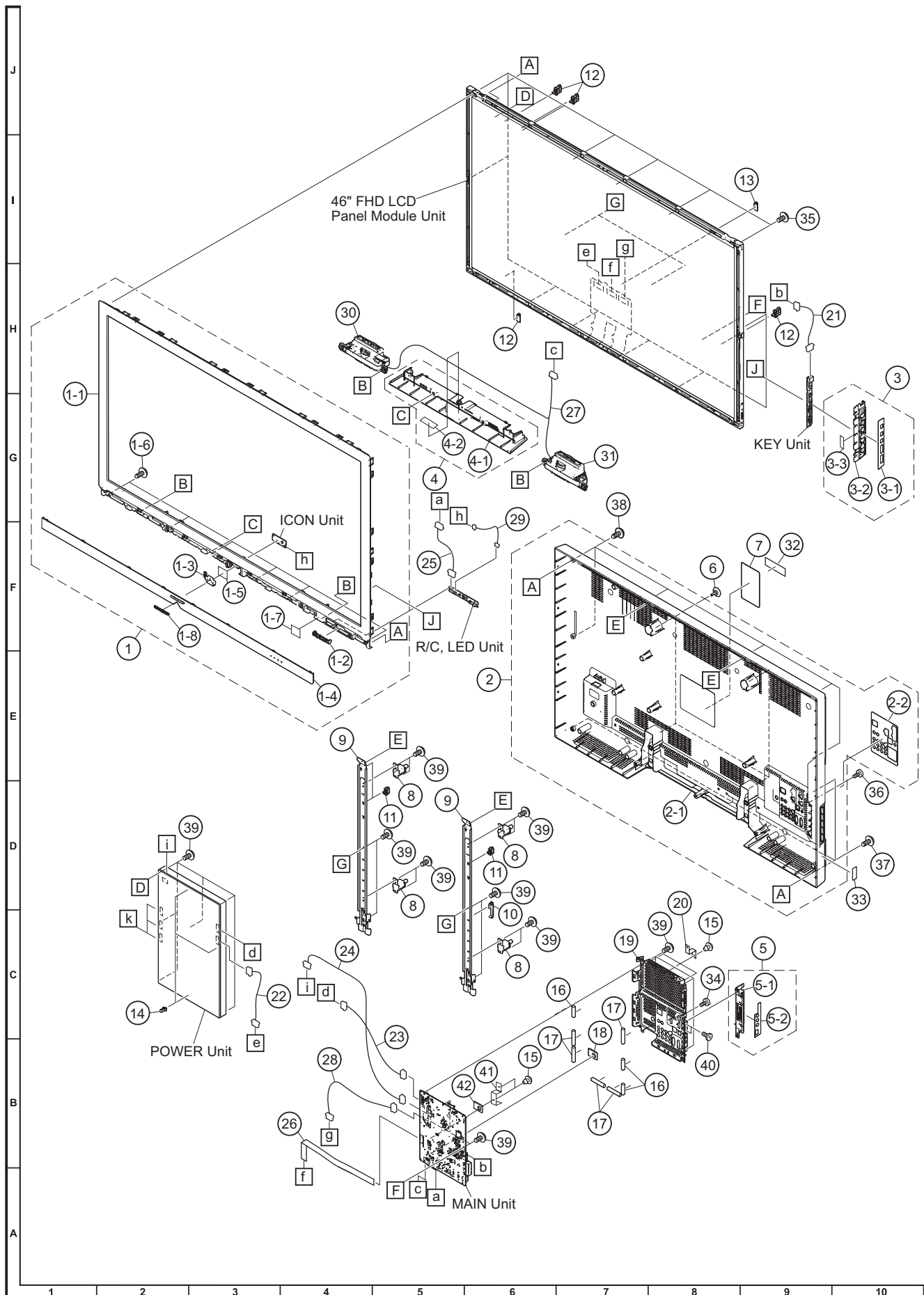
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[1] PRINTED WIRING BOARD ASSEMBLIES					
N	DKEYMF282FM10	BU		X	MAIN Unit (DKEYMF282FM10S) (LC-40/46/52LE700UN(A))
N	DUNTKF282FM08	BT		X	MAIN Unit (DUNTF282FM08S) (LC-C46700UN/C52700UN)
N	DUNTKF239FM02	BL		X	LCD Control Unit (DUNTF282FM08S)
N	DUNTKE266FM02	AH		X	KEY Unit
N	DUNTKF308FM01	AN		X	R/C, LED Unit
N	DUNTKF314FM01	AF		X	ICON Unit
N	RUNTKA622WJQZ	BY		X	POWER Unit (LC-40LE700UN(A))
N	RUNTKA604WJQZ	CB		X	POWER Unit (LC-46/52LE700UN(A)/C46700UN/C52700UN)
N	RUNTKA655WJ01	AU		J	LED5-PWB1 Unit (LC-40/46LE700UN(A)/C46700UN) (21mm)
N	RUNTKA655WJ02	AU		J	LED5-PWB2 Unit (LC-40/46LE700UN(A)/C46700UN) (21mm)
N	RUNTKA656WJ01	AW		J	LED6-PWB1 Unit (LC-40/46/52LE700UN(A)/C46700UN/C52700UN) (21mm)
N	RUNTKA656WJ02	AW		J	LED6-PWB2 Unit (LC-40/46/52LE700UN(A)/C46700UN/C52700UN) (21mm)
N	RUNTKA658WJ01	AX		J	LED8-PWB1 Unit (LC-46/52LE700UN(A)/C46700UN/C52700UN) (21mm)
N	RUNTKA658WJ02	AX		J	LED8-PWB2 Unit (LC-46/52LE700UN(A)/C46700UN/C52700UN) (21mm)
[2] LCD PANEL					
N	DLCUCA002FM11	DD		X	40" LCD Panel Module Unit (LC-40LE700UN(A))
N	DLCUCA003FM11	DQ		X	46" LCD Panel Module Unit (LC-46LE700UN(A)/C46700UN)
N	DLCUCA004FM11	DZ		X	52" LCD Panel Module Unit (LC-52LE700UN(A)/C52700UN)



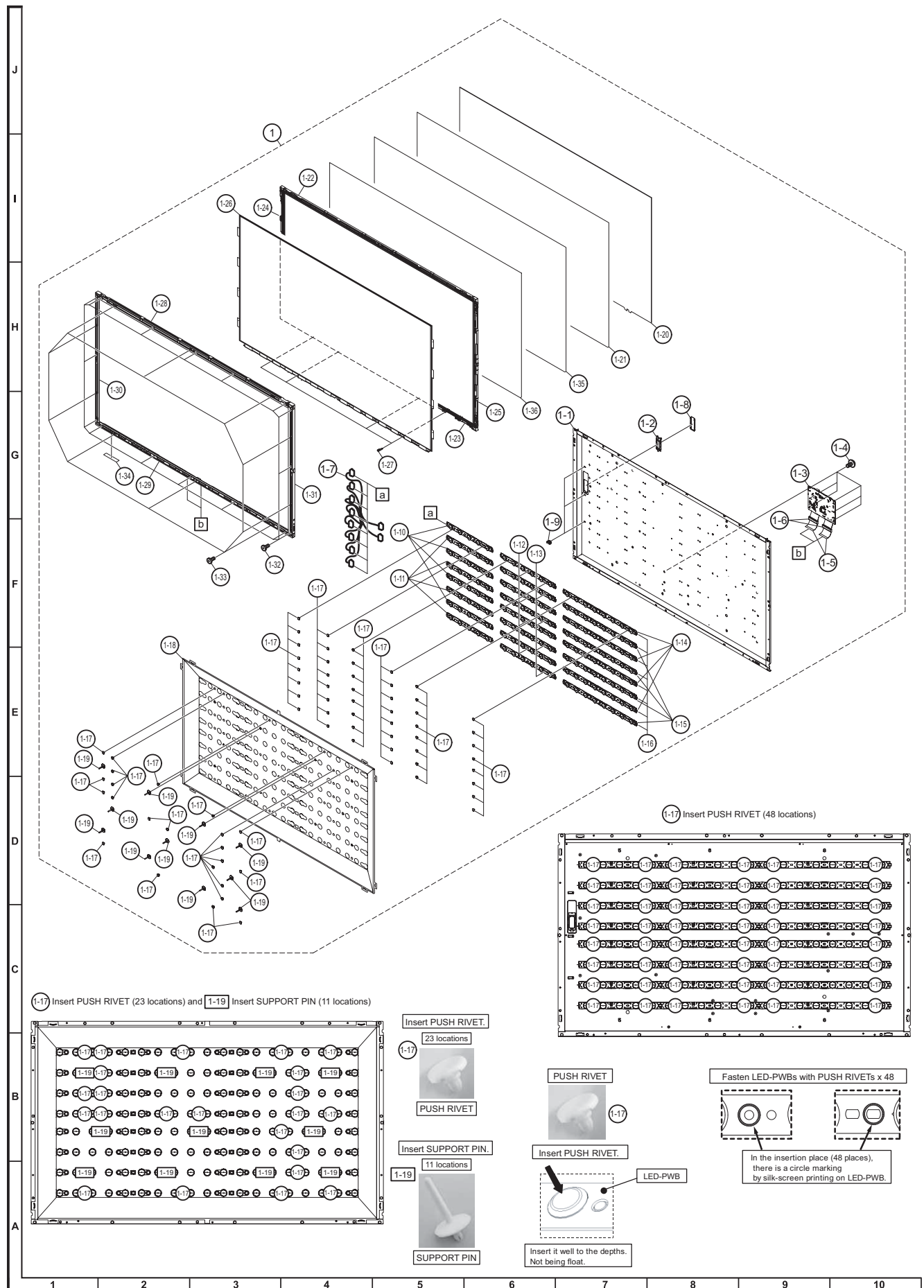
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] CABINET PARTS (LC-40LE700UN(A))					
1	CCABAC372WJ31	BQ		X	Front Cabinet Ass'y
1-1	Not Available	-		-	Front Cabinet
1-2	Not Available	-		-	Front Decoration
1-3	Not Available	-		-	LED Cover
1-4	Not Available	-		-	Center Decoration
1-5	Not Available	-		-	Diffusion Sheet
1-6	XEBS740P10000	AB		J	Screw, x6
1-7	PSPAHB223WJ3Z	AC		X	HIMERON, x4
1-8	HBDGBA070WJSA	AF		J	SHARP Badge
2	CCABBB581WJ31	BM		X	Rear Cabinet Ass'y
2-1	Not Available	-		-	Rear Cabinet
2-2	Not Available	-		-	Terminal Label
3	CBTN-A844WJ31	AL		X	Control Button Cover Ass'y
3-1	HiNDPD374WJSA	AD		X	Control Button Label
3-2	Not Available	-		-	Control Button
3-3	Not Available	-		-	HIMERON
4	CCOVAD464WJ31	AM		X	Bottom Cover Ass'y
4-1	Not Available	-		-	Bottom Cover
4-2	PSHEPB004WJKZ	AM		X	Reflection Sheet
5	CCOVAC951WJ03	AK		X	Side Terminal Cover Ass'y
5-1	Not Available	-		-	Side Terminal Cover
5-2	Not Available	-		-	Side Terminal Label
6	GCOVAC576WJKZ	AC		J	VESA Holder Cover, x4
7	HiNDPD522WJSA	AB		X	Model Label
8	LANGKC300WJFW	AN		X	Center Angle, x2
9	LANGKC357WJM1	AG		X	VESA Angle, x4
10	LANGKC477WJFW	AC		X	Side Lug, x2
11	LHLDWA074WJKZ	AD		J	Wire Holder
12	LHLDWA133WJKZ	AC		J	Wire Holder
13	LHLDWA143WJKZ	AC		J	Wire Holder
14	LHLDWA175WJUJ	AC		J	Wire Holder, x6
15	LHLDWA176WJUJ	AC		J	Wire Holder
16	LHLDZA587WJKZ	AC		J	Spacer, x2
17	PCL iCA004WJKZ	AC		J	Rivet, x5
18	PMLT-A593WJZZ	AC		X	Gasket, x3
19	PMLT-A594WJZZ	AD		X	Gasket, x5
20	PMLT-A597WJQZ	AF		X	Gasket
21	PSLDMB629WJFW	AM		X	Main PWB Shield
22	PSLDMB651WJZZ	AD		X	Shield Main, x3
23	QCNW-J658WJQZ	AL		X	Connecting Cord (PD)
24	QCNW-J659WJQZ	AL		X	Connecting Cord (LB)
25	QCNW-J660WJQZ	AF		X	Connecting Cord (KM)
26	QCNW-J661WJQZ	AK		X	Connecting Cord (RA)
27	QCNW-J662WJQZ	AG		X	Connecting Cord (PL)
28	QCNW-J663WJQZ	AX		X	Connecting Cord (LW)
29	QCNW-J711WJQZ	AK		X	Connecting Cord (SP)
30	QCNW-J712WJQZ	AK		X	Connecting Cord (LP)
31	QCNW-J838WJQZ	AF		J	Connecting Cord (IM)
32	RSP-ZA391WJZZ	AP		J	Speaker-L
33	RSP-ZA392WJZZ	AP		J	Speaker-R
34	Not Available	-		-	Back Serial Label
35	Not Available	-		-	Side Serial Label
36	XBPS830P06000	AA		J	Screw, x3 (for HDMI)
37	XEBS740P10000	AB		J	Screw, x8 (for Cabinet)
38	XEBS930P08000	AA		J	Screw, x4 (for Side Lug)
39	XEBS930P10000	AA		J	Screw
40	XEBS940P16000	AB		J	Screw, x6 (for Cabinet A/B)
41	XHPS830P06WS0	AA		J	Screw, x41 (for LCD Panel)
43	XiPSN20P04000	AA		J	Screw, x2 (for HDMI)
44	XWHS740-08120	AB		X	Washer
45	LANGQA049WJFW	AB		X	MAIN PWB Earth Angle
46	PMLT-A607WJZZ	AE		X	Gasket Main

[4] LCD PANEL MODULE (LC-40LE700UN(A))

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[4] LCD PANEL MODULE (LC-40LE700UN(A))					
1	DLCUCA002FM11	DD		X	40" FHD LCD Panel Module Unit
1-1	CRDARA846WJ01	BC		X	Back Light Chassis Ass'y
1-2	LHLDWA284WJKZ	AC		J	Bush Base
1-3	DUNTKF239FM02	BL		X	LCD Control Unit
1-4	XBPS730P06WS0	AA		J	Screw, x6
1-5	QCNW-H089WJQZ	AG		J	Connecting Cord, x2
1-6	RCORFA061WJZZ	AG		J	Ferrite Core, x2
1-7	QCNW-K251WJQZ	AL		X	Wire Harness
1-8	CHLDWA285WJ01	AC		J	Bush Cap Unit
1-9	LHLDWA280WJKZ	AC		J	Wire Holder, x3
1-10	RUNTKA655WJ01	AU		J	LED5-PWB1 Unit, x4 (21mm)
1-11	RUNTKA655WJ02	AU		J	LED5-PWB2 Unit, x3 (21mm)
1-12	RUNTKA656WJ01	AW		J	LED6-PWB1 Unit, x8 (21mm)
1-13	RUNTKA656WJ02	AW		J	LED6-PWB2 Unit, x6 (21mm)
1-14	QCNCWA958WJZZ	AD		J	Terminator, x7
1-15	LHLDZB497WJKZ	AC		J	Push Rivet, x62
1-16	PMIR-A275WJZZ	AR		X	Reflector Sheet
1-17	LHLDZB496WJKZ	AC		J	Support Pin, x8
1-18	PCOVUA185WJZZ	AZ		J	Diffusion Plate
1-19	PSHEPA965WJZZ	AY		J	Lens Sheet
1-20	CHLDZB517WJ02	AM		X	Panel Chassis Ass'y (Top)
1-21	CHLDZB518WJ02	AM		X	Panel Chassis Ass'y (Bottom)
1-22	CHLDZB519WJ02	AH		X	Panel Chassis Ass'y (L)
1-23	CHLDZB520WJ02	AH		X	Panel Chassis Ass'y (R)
1-24	R1LK400D3FZB2Z	CT		X	40" LCD Panel HIRAKI Unit
1-25	LHLDZ3785TPZZ	AC		J	Clip, x4
1-26	CANGKC337WJ01	AM		J	Bezel Ass'y (Top)
1-27	CANGKC338WJ01	AN		J	Bezel Ass'y (Bottom)
1-28	CANGKC339WJ01	AK		J	Bezel Ass'y (L)
1-29	CANGKC340WJ01	AK		J	Bezel Ass'y (R)
1-30	LX-EZA028WJF9	AB		J	Screw, x12
1-31	LX-BZA213WJF7	AA		J	Screw, x14
1-32	TLABN2229TPZZ	AA		J	Bar Code Label
1-33	PSHEPB027WJZZ	AZ		X	Lens Sheet
1-34	PSHEPB010WJZZ	BH		X	DBEF Sheet

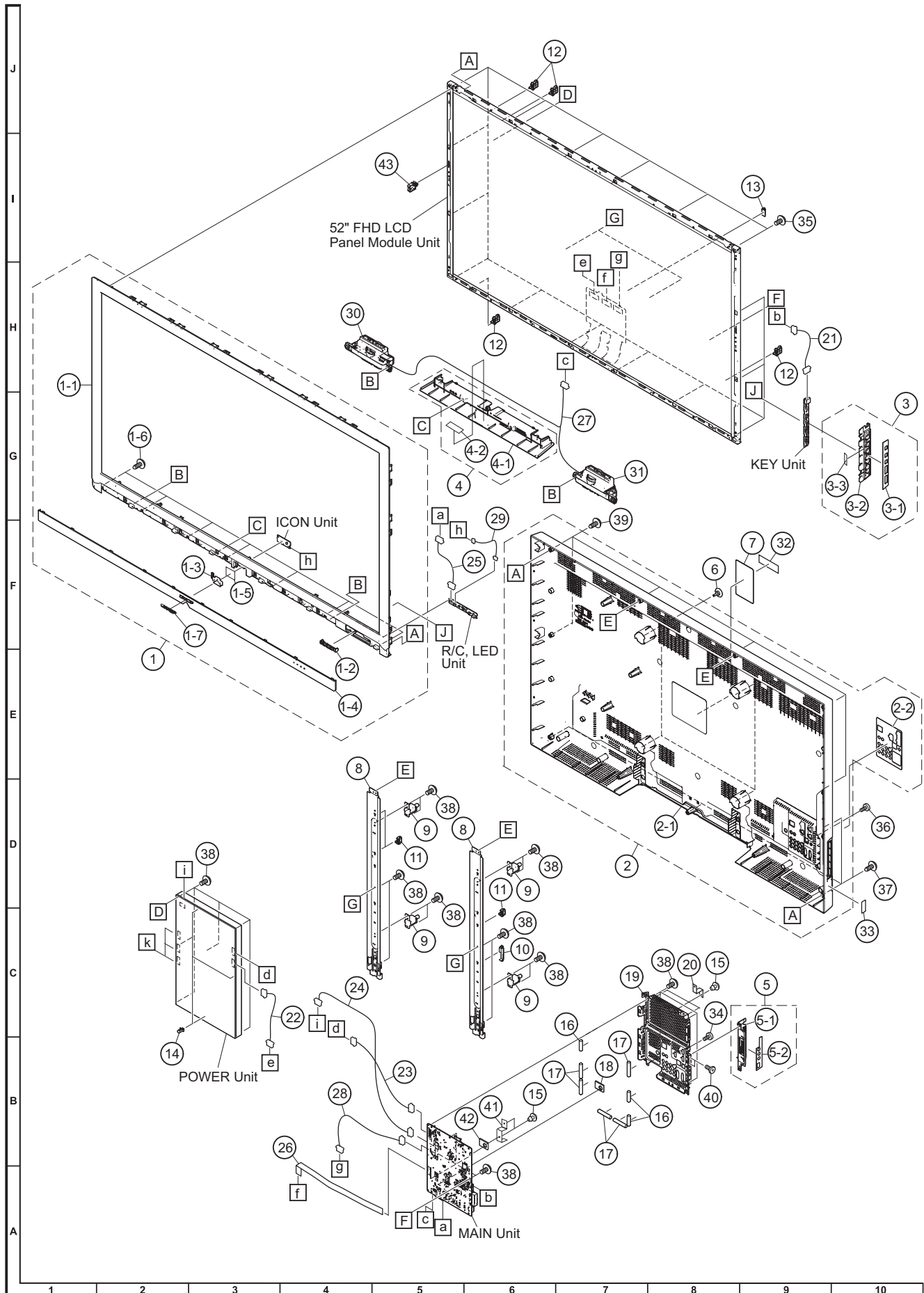
[5] CABINET PARTS (LC-46LE700UN(A)/C46700UN)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[5] CABINET PARTS (LC-46LE700UN(A)/C46700UN)					
1	CCABAC378WJ31	BR		X	Front Cabinet Ass'y (LC-46LE700UN(A))
1	CCABAC378WJ32	BH		X	Front Cabinet Ass'y (LC-C46700UN)
1-1	Not Available	-		-	Front Cabinet
1-2	Not Available	-		-	LED Cover
1-3	Not Available	-		-	Center Decoration
1-4	Not Available	-		-	Front Decoration
1-5	Not Available	-		-	Diffusion Sheet
1-6	XEBS740P10000	AB		J	Screw, x6
1-7	Not Available	-		-	HIMERON
1-8	HBGDBA065WJSA	AF		X	SHARP Badge
2	CCABBB591WJ31	BP		X	Rear Cabinet Ass'y (LC-46LE700UN(A))
2	CCABBB591WJ32	BL		X	Rear Cabinet Ass'y (LC-C46700UN)
2-1	Not Available	-		-	Rear Cabinet
2-2	Not Available	-		-	Terminal Label
3	CBTN-A844WJ31	AL		X	Control Button Cover Ass'y
3-1	HINDPD374WJSA	AD		X	Control Button Label
3-2	Not Available	-		-	Control Button
3-3	Not Available	-		-	HIMERON
4	CCOVAD479WJ31	AN		X	Button Cover Ass'y
4-1	Not Available	-		-	Button Cover
4-2	Not Available	-		-	Reflection Sheet
5	CCOVAC951WJ03	AK		X	Side Terminal Cover Ass'y (LC-46LE700UN(A))
5	CCOVAC951WJ02	AK		X	Side Terminal Cover Ass'y (LC-C46700UN)
5-1	Not Available	-		-	Side Terminal Cover
5-2	Not Available	-		-	Side Terminal Label
6	GCOVAC576WJKZ	AC		J	VESA Hole Cover, x4
7	HINDPD523WJSA	AB		X	Model Label (LC-46LE700UN(A))
7	HINDPD518WJSA	AB		X	Model Label (LC-C46700UN)
8	LANGKC357WJM1	AG		X	VESA Angle, x4
9	LANGKC435WJFW	AM		X	Center Angle, x2
10	LHLDWA074WJKZ	AD		J	Wire Holder
11	LHLDWA143WJKZ	AC		J	Wire Holder, x3
12	LHLDWA175WJUJ	AC		J	Wire Holder, x4
13	LHLDWA176WJUJ	AC		J	Wire Holder
14	LHLDZA587WJKZ	AC		J	Spacer, x3
15	PCLICA004WJKZ	AC		J	Rivet, x5
16	PMLT-A593WJZZ	AC		X	Gasket, x3
17	PMLT-A594WJZZ	AD		X	Gasket, x5
18	PMLT-A597WJQZ	AF		X	Gasket
19	PSLDMB629WJFW	AM		X	Main PWB Shield
20	PSLDMB651WJZZ	AD		X	Shield Main, x3
21	QCNW-H519WJQZ	AE		X	Connecting Cord (KM)
22	QCNW-J003WJQZ	AE		X	Connecting Cord (PL)
23	QCNW-J786WJQZ	AL		X	Connecting Cord (PD)
24	QCNW-J787WJQZ	AK		X	Connecting Cord (LB)
25	QCNW-J789WJQZ	AK		X	Connecting Cord (RA)
26	QCNW-J791WJQZ	AW		X	Connecting Cord (LW)
27	QCNW-J792WJQZ	AL		X	Connecting Cord (SP)
28	QCNW-J793WJQZ	AK		X	Connecting Cord (LP)
29	QCNW-J839WJQZ	AF		X	Connecting Cord (IM)
30	RSP-ZA391WJZZ	AP		J	SPEAKER-L
31	RSP-ZA392WJZZ	AP		J	SPEAKER-R
32	Not Available	-		-	Back Serial No, Label
33	Not Available	-		-	Side Serial No, Label
34	XBPS830P06000	AA		J	Screw, x3 (for HDMI)
35	XEBS740P10000	AB		J	Screw, x12
36	XEBS930P10000	AA		J	Screw
37	XEBS940P16000	AB		J	Screw, x6 (for CAB A/B)
38	XHPS830P10WS0	AB		J	Screw, x6 (for CAB B-BL)
39	XHPS830P06WS0	AA		J	Screw, x25 (for BL-PWB/ANG)
40	XIPSN20P04000	AA		J	Screw, x2 (for SIDE HDMI)
41	LANGQA049WJFW	AB		X	MAIN PWB Earth Angle
42	PMLT-A607WJZZ	AE		X	Gasket Main

[6] LCD PANEL MODULE (LC-46LE700UN(A)/C46700UN)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[6] LCD PANEL MODULE (LC-46LE700UN(A)/C46700UN)					
1	DLCUCA003FM11	DQ		X	46" FHD LCD Panel Module Unit
1-1	CRDARA840WJ01	BB		X	Back Light Chassis
1-2	LHLDWA284WJKZ	AC		J	Bush Base
1-3	DUNTKF239FM02	BL		X	LCD Control Unit
1-4	XHPS730P06WS0	AA		J	Screw, x6
1-5	QCNW-H089WJQZ	AG		J	Connecting Cord, x2
1-6	RCORFA061WJZZ	AG		J	Ferrite Core, x2
1-7	QCNW-K253WJQZ	AN		X	Wire Harness
1-8	CHLDWA285WJ01	AC		J	Bush Cap Unit
1-9	LHLDWA280WJKZ	AC		X	Wire Holder, x3
1-10	RUNTKA655WJ01	AU		J	LED5-PWB1 Unit, x4 (21mm)
1-11	RUNTKA655WJ02	AU		J	LED5-PWB2 Unit, x4 (21mm)
1-12	RUNTKA656WJ01	AW		J	LED6-PWB1 Unit, x4 (21mm)
1-13	RUNTKA656WJ02	AW		J	LED6-PWB2 Unit, x4 (21mm)
1-14	RUNTKA658WJ01	AX		J	LED8-PWB1 Unit, x4 (21mm)
1-15	RUNTKA658WJ02	AX		J	LED8-PWB2 Unit, x4 (21mm)
1-16	QCNCWA958WJZZ	AD		J	Terminator, x8
1-17	LHLDZB497WJKZ	AC		J	Push Rivet, x71
1-18	PMIR-A277WJZZ	AU		X	Reflector Sheet
1-19	LHLDZB496WJKZ	AC		J	Support Pin, x11
1-20	PCOVUA186WJZZ	BC		X	Diffusion Plate
1-21	PSHEPA966WJZZ	AY		X	Lens Sheet
1-22	CHLDZB509WJ02	AM		X	Panel Chassis Ass'y (Top)
1-23	CHLDZB510WJ02	AN		X	Panel Chassis Ass'y (Bottom)
1-24	CHLDZB511WJ02	AK		X	Panel Chassis Ass'y (L)
1-25	CHLDZB512WJ02	AK		X	Panel Chassis Ass'y (R)
1-26	R1LK460D3FZL0Z	DZ		X	46" LCD Panel HIRAKI Unit
1-27	LHLDZ3785TPZZ	AC		J	Clip, x4
1-28	CANGKC333WJ01	AP		X	Bezel Ass'y (Top)
1-29	CANGKC334WJ01	AP		X	Bezel Ass'y (Bottom)
1-30	CANGKC335WJ01	AN		X	Bezel Ass'y (L)
1-31	CANGKC336WJ01	AN		X	Bezel Ass'y (R)
1-32	LX-EZA028WJF9	AB		J	Screw, x16
1-33	LX-HZA039WJF7	AB		J	Screw, x10
1-34	TLABN2229TPZZ	AA		J	Bar Code Label
1-35	PSHEPB028WJZZ	BC		X	Lens Sheet
1-36	PSHEPB011WJZZ	BM		X	DBEF Sheet

[7] CABINET PARTS (LC-52LE700UN(A)/C52700UN)



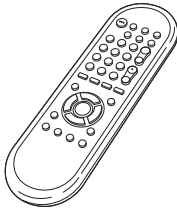
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[7] CABINET PARTS (LC-52LE700UN(A)/C52700UN)					
1	CCABAC377WJ31	BS		X	Front Cabinet Ass'y (LC-52LE700UN(A))
1	CCABAC377WJ32			X	Front Cabinet Ass'y (LC-C52700UN)
1-1	Not Available	-		-	Front Cabinet
1-2	Not Available	-		-	LED Cover
1-3	Not Available	-		-	Center Decoration
1-4	Not Available	-		-	Front Decoration
1-5	Not Available	-		-	Diffusion Sheet
1-6	XEBS740P10000	AB		J	Screw, x7
1-7	HBDGBA065WJSA	AF		X	SHARP Badge
2	CCABBB590WJ31	BR		X	Rear Cabinet Ass'y (LC-52LE700UN(A))
2	CCABBB590WJ32			X	Rear Cabinet Ass'y (LC-C52700UN)
2-1	Not Available	-		-	Rear Cabinet
2-2	Not Available	-		-	Terminal Label
3	CBTN-A844WJ31	AL		X	Control Button Cover Ass'y
3-1	HiNDPD374WJSA	AD		X	Control Button Label
3-2	Not Available	-		-	Control Button
3-3	Not Available	-		-	HIMERON
4	CCOVAD479WJ31	AN		X	Bottom Cover Ass'y
4-1	Not Available	-		-	Bottom Cover
4-2	Not Available	-		-	Reflection Sheet
5	CCOVAC951WJ03	AK		X	Side Terminal Cover Ass'y (LC-52LE700UN(A))
5	CCOVAC951WJ02	AK		X	Side Terminal Cover Ass'y (LC-C52700UN)
5-1	Not Available	-		-	Side Terminal Cover
5-2	Not Available	-		-	Side Terminal Label
6	GCOVAC576WJKZ	AC		J	VESA Holder Cover, x4
7	HiNDPD524WJSA	AB		X	Model Label (LC-52LE700UN(A))
7	HiNDPD519WJSA	AB		X	Model Label (LC-C52700UN)
8	LANGKC498WJFW	AH		X	Center Angle, x2
9	LANGKC357WJM1	AG		X	VESA Angle, x4
10	LHLDWA074WJKZ	AD		J	Wire Holder
11	LHLDWA143WJKZ	AC		J	Wire Holder, x3
12	LHLDWA175WJUJ	AC		J	Wire Holder, x4
13	LHLDWA176WJUJ	AC		J	Wire Holder
14	LHLDZA587WJKZ	AC		J	Spacer, x3
15	PCLICA004WJKZ	AC		J	Rivet, x5
16	PMLT-A593WJZZ	AC		X	Gasket, x3
17	PMLT-A594WJZZ	AD		X	Gasket, x5
18	PMLT-A597WJQZ	AF		X	Gasket
19	PSLDMB629WJFW	AM		X	Main PWB Shield
20	PSLDMB651WJZZ	AD		X	Shield Main, x3
21	QCNW-H519WJQZ	AE		X	Connecting Cord (KM)
22	QCNW-J003WJQZ	AE		X	Connecting Cord (PL)
23	QCNW-J794WJQZ	AL		X	Connecting Cord (PD)
24	QCNW-J795WJQZ	AK		X	Connecting Cord (LB)
25	QCNW-J797WJQZ	AK		X	Connecting Cord (RA)
26	QCNW-J799WJQZ	AX		X	Connecting Cord (LW)
27	QCNW-J800WJPZ	AL		X	Connecting Cord (SP)
28	QCNW-J801WJQZ	AL		X	Connecting Cord (LP)
29	QCNW-J840WJQZ	AF		X	Connecting Cord (IM)
30	RSP-ZA391WJZZ	AP		J	SPEAKER-L
31	RSP-ZA392WJZZ	AP		J	SPEAKER-R
32	Not Available	-		-	Back Serial No. Label
33	Not Available	-		-	Side Serial No. Label
34	XBPS830P06000	AA		J	Screw, x3(for HDMI)
35	XEBS740P10000	AB		J	Screw, x16 (for BL-CAB A)
36	XEBS930P10000	AA		J	Screw (for S-VIDEO)
37	XEBS940P16000	AB		J	Screw, x6(for CAB-A/B)
38	XHPS830P06WS0	AA		J	Screw, x25
39	XHPS830P10WS0	AB		J	Screw, x6
40	XIPSN20P04000	AA		J	Screw, x2 (for Side HDMI)
41	LANGQA049WJFW	AB		X	MAIN PWB Earth Angle
42	PMLT-A607WJZZ	AE		X	Gasket Main
43	LHLDWA133WJKZ	AC		J	Wire Holder



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[8] LCD PANEL MODULE (LC-52LE700UN(A)/C52700UN)					
1	DLCUCA004FM11	DZ		X	52" FHD LCD Panel Module Unit
1-1	CRDARA843WJ01	BD		X	Back Light Chassis Ass'y
1-2	LHLDWA284WJKZ	AC		J	Bush Base
1-3	DUNTKF239FM02	BL		X	LCD Control Unit
1-4	XHPS730P06WS0	AA		J	Screw, x6
1-5	QCNW-H089WJQZ	AG		J	Connecting Cord, x2
1-6	RCORFA061WJZZ	AG		J	Ferrite Core, x2
1-7	QCNW-K255WJQZ	AU		X	Wire Harness
1-8	CHLDWA285WJ01	AC		J	Bush Cap Unit
1-9	LHLDWA280WJKZ	AC		J	Wire Holder, x3
1-10	RUNTKA656WJ01	AW		J	LED6-PWB1 Unit, x4 (21mm)
1-11	RUNTKA656WJ02	AW		J	LED6-PWB2 Unit, x4 (21mm)
1-12	RUNTKA658WJ01	AX		J	LED8-PWB1 Unit, x8 (21mm)
1-13	RUNTKA658WJ02	AX		J	LED8-PWB2 Unit, x8 (21mm)
1-14	QCNCWA958WJZZ	AD		J	Terminator, x8
1-15	LHLDZB497WJKZ	AC		J	Push Rivet, x81
1-16	PMIR-A279WJZZ	AV		X	Reflection Sheet
1-17	LHLDZB496WJKZ	AC		J	Support Pin, x11
1-18	PCOVUA187WJZZ	BD		X	Diffusion Plate
1-19	PSHEPA967WJZZ	BC		X	Lens Sheet
1-20	CHLDZB505WJ01	AT		X	Panel Chassis Ass'y (Top)
1-21	CHLDZB506WJ02	AT		X	Panel Chassis Ass'y (Bottom)
1-22	CHLDZB507WJ02	AL		X	Panel Chassis Ass'y (L)
1-23	CHLDZB508WJ01			X	Panel Chassis Ass'y (R)
1-24	R1LK520D3FZL0Z	EH		X	52" LCD Panel HIRAKI Unit
1-25	LHLDZB194WJKZ	AC		X	Clip, x6
1-26	CANGKC329WJ01	AR		X	Bezel Ass'y (Top)
1-27	CANGKC330WJ01	AT		X	Bezel Ass'y (Bottom)
1-28	CANGKC331WJ01	AQ		X	Bezel Ass'y (L)
1-29	CANGKC332WJ01	AQ		X	Bezel Ass'y (R)
1-30	LX-EZA028WJF9	AB		J	Screw, x18
1-31	LX-HZA039WJF7	AB		J	Screw, x12
1-32	TLABN2229TPZZ	AA		J	Bar Code Label
1-33	PSHEPB029WJZZ	BE		X	Lens Sheet
1-34	PSHEPB012WJZZ	BP		X	DBEF Sheet

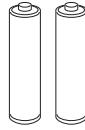
[9] SUPPLIED ACCESSORIES (LC-C46700UN/C52700UN)

X6



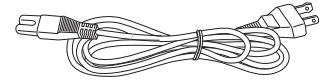
Remote control unit

X10



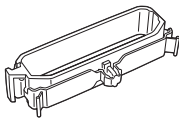
"AA" size battery

X5

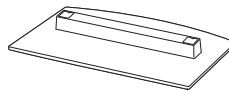
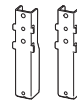


AC cord

X4



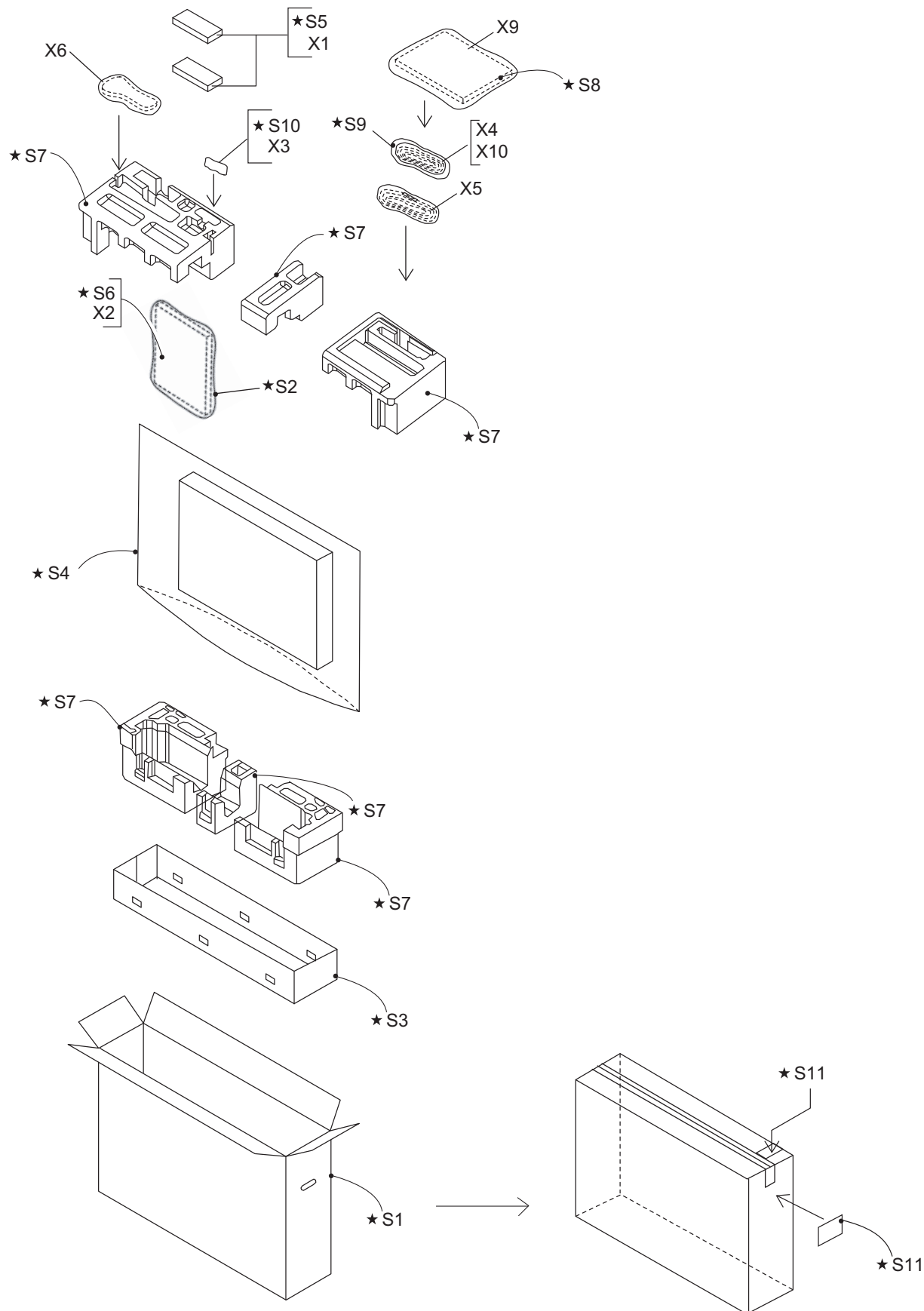
Cable clamp

X2
Stand unitX1
Stand supportX3
Screw ass'y

X9 Operation manual

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[9] SUPPLIED ACCESSORIES (LC-C46700UN/C52700UN)					
X1	CANGFA675WJ01	AK		X	Stand Support
X2	CDAI-A580WJ01	BG		X	Stand Unit
X3	CSAKHA036WJ01	AG		X	Screw Ass'y
X4	LHLDWA173WJKZ	AE		J	Cable Clamp
X5	QACCD A066WJPZ	AP		X	AC Cord
X6	RRMCGA667WJSA	AH		X	Remote Control Unit
X7	TCAD E A243WJZZ	AD		X	Enquete Card
X8	TGAN-A845WJN1	AD		X	Extend Warranty
X9	TINS-E393WJZZ	AC		X	Operation Manual (E)
X9	TINS-E394WJZZ	AD		J	Operation Manual (S)
X10	Not Available	-		-	"AA" Size Battery
X11	TCAUHA352WJZZ	AB		X	Set Up Guide

[10] PACKING PARTS (LC-C46700UN/C52700UN) (NOT REPLACEMENT ITEM)



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[10] PACKING PARTS (LC-C46700UN/C52700UN) (NOT REPLACEMENT ITEM)					
S1	SPAKCF127WJZZ	-		-	Packing Case (LC-C46700UN)
S1	SPAKCF126WJZZ	-		-	Packing Case (LC-C52700UN)
S2	SPAKAA522WJZZ	-		-	Cover Sheet
S3	SPAKCF094WJZZ	-		-	Packing Case Bottom (LC-C46700UN)
S3	SPAKCF084WJZZ	-		-	Packing Case Bottom (LC-C52700UN)
S4	SPAKPA999WJZZ	-		-	Wrapping Paper (LC-C46700UN)
S4	SPAKPA992WJZZ	-		-	Wrapping Paper (LC-C52700UN)
S5	SPAKPB423WJZZ	-		-	MIRROR MAT SUPP
S6	SPAKPB425WJZZ	-		-	MIRROR MAT BASE
S7	SPAKXC632WJZZ	-		-	Packing Add (LC-C46700UN)
S7	SPAKXC657WJZZ	-		-	Packing Add (LC-C52700UN)
S8	SSAKA0101GJZZ	-		-	Polyethylene Bag
S9	SSAKAA032WJZZ	-		-	Polyethylene Bag
S10	SSAKHA036WJZZ	-		-	Polyethylene Bag For Screw
S11	TLABKA009WJZZ	-		-	Case No. Label

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